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CONNECTORS

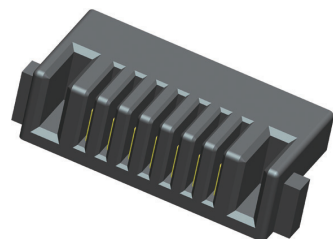
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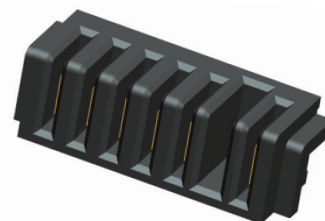
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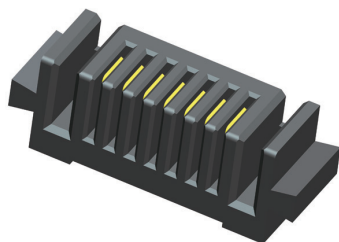
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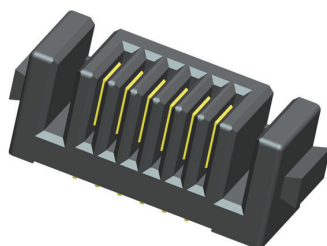
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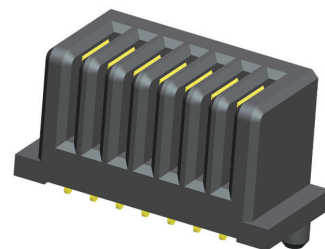
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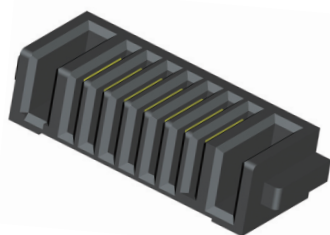
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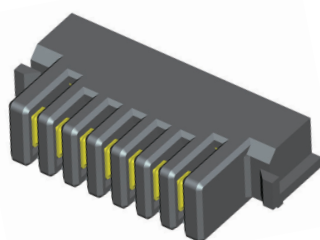
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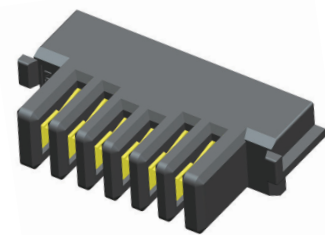
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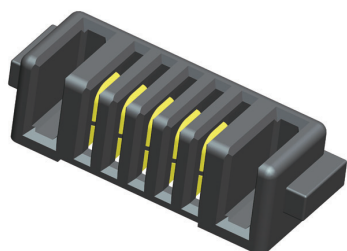
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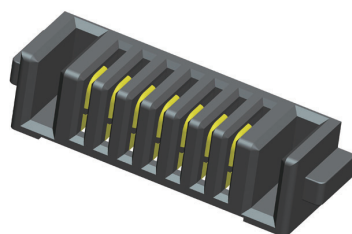
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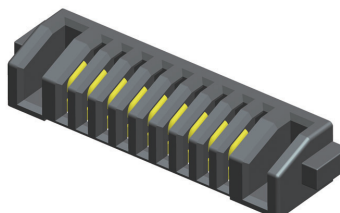
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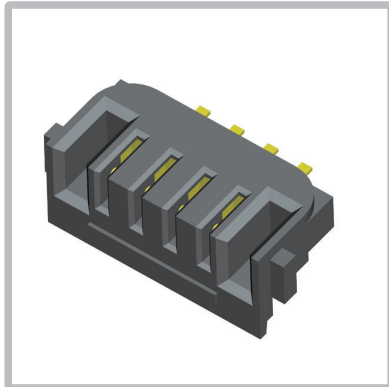
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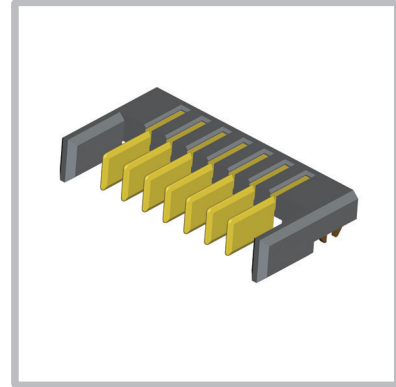


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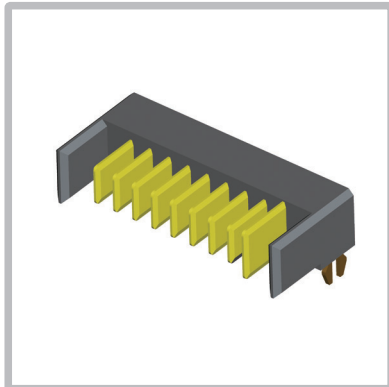


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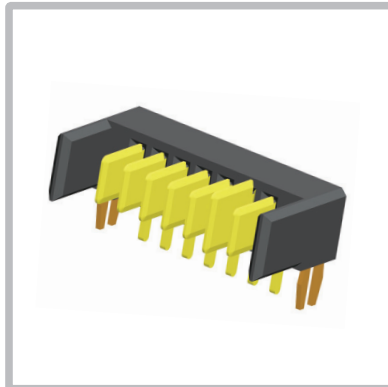
**2.0 mm Pitch
Battery
Connector,
Male**



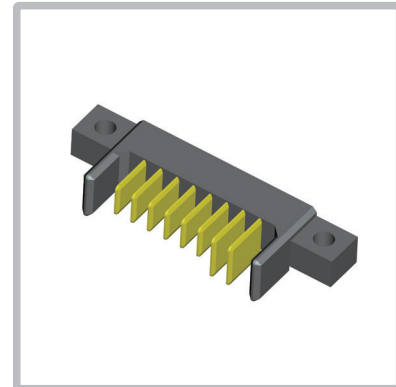
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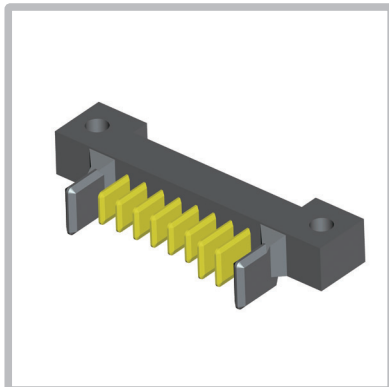
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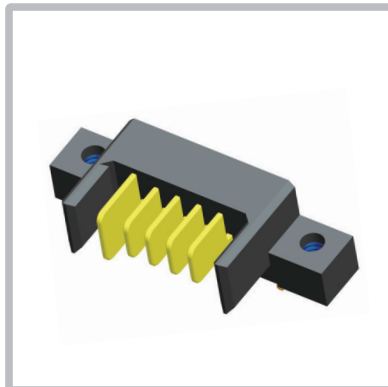
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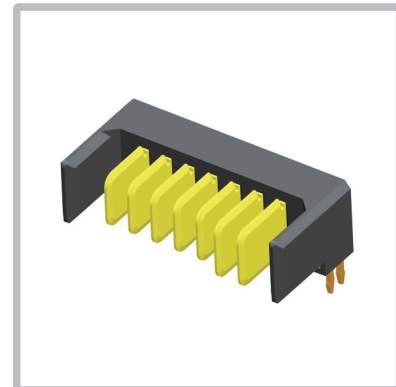
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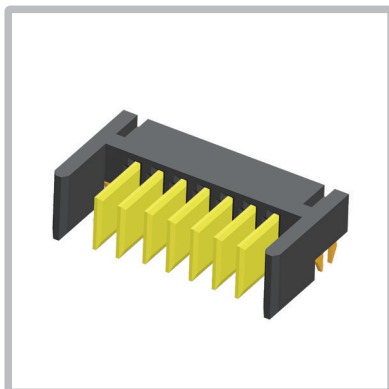
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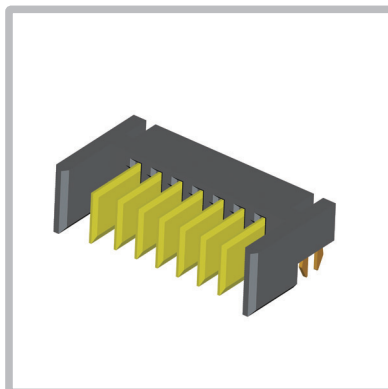
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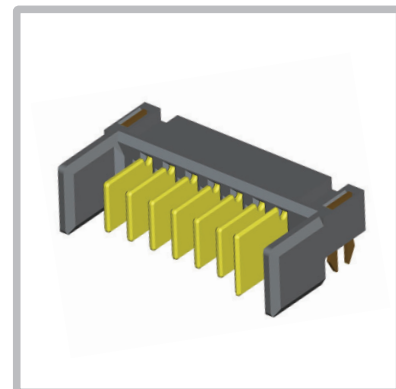
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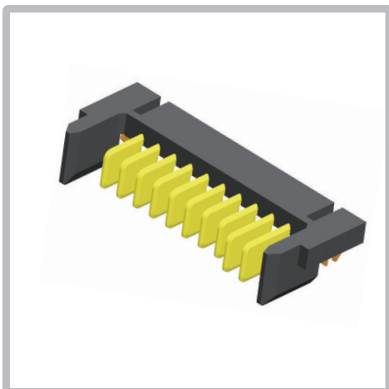


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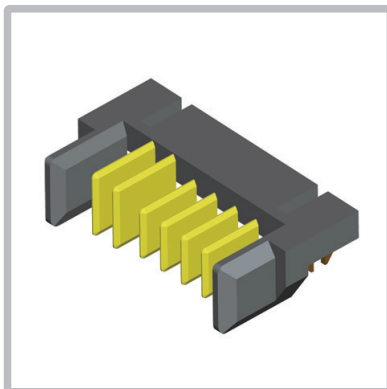


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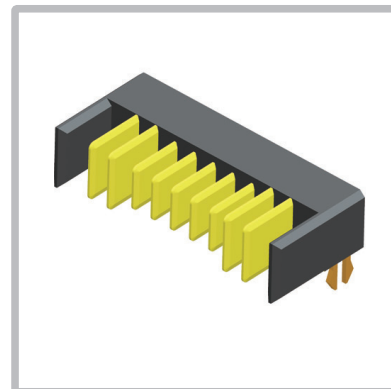
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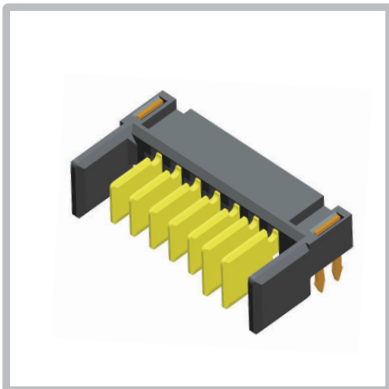
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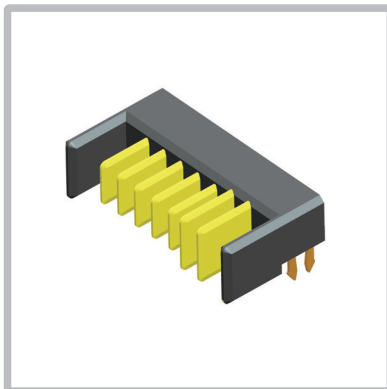
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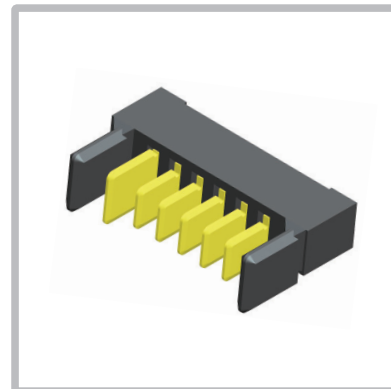
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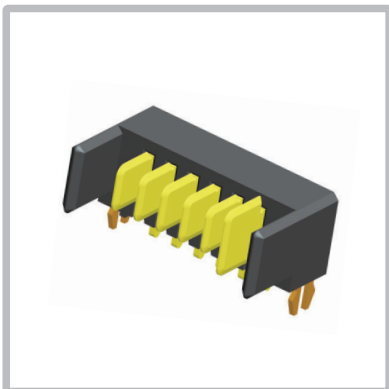
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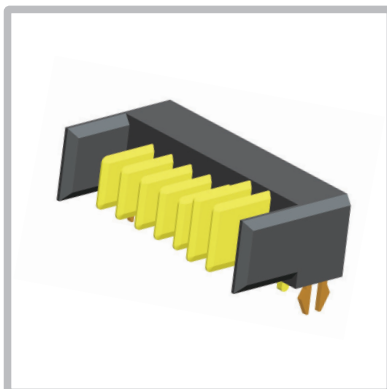
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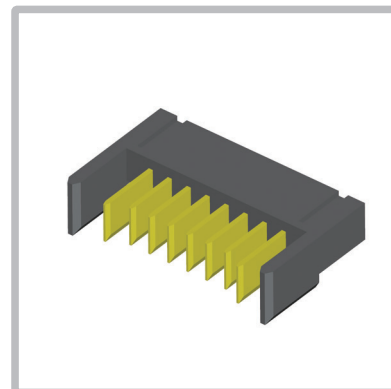
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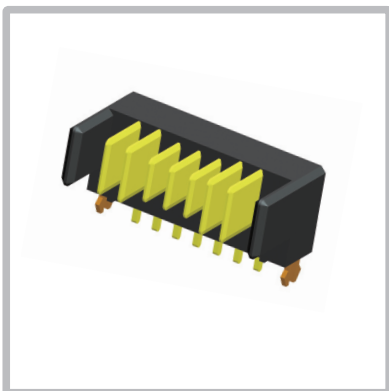
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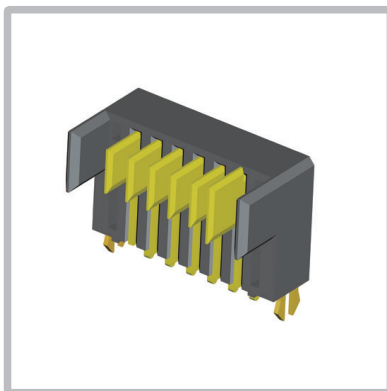
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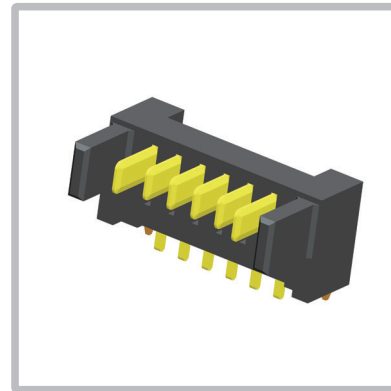
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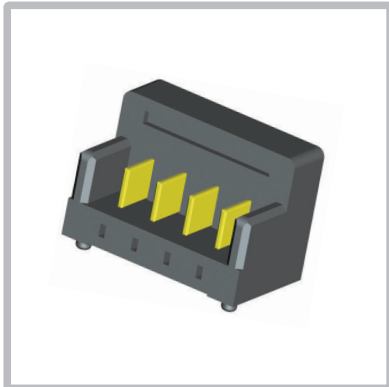
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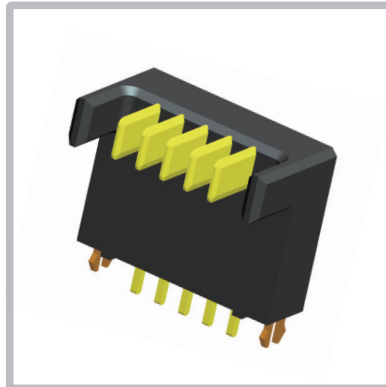
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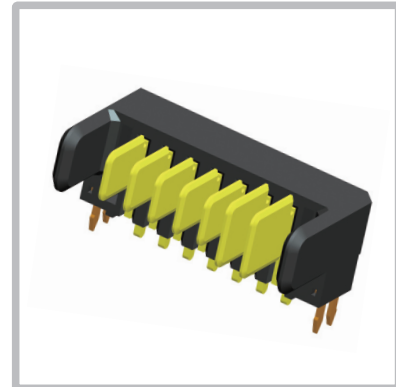
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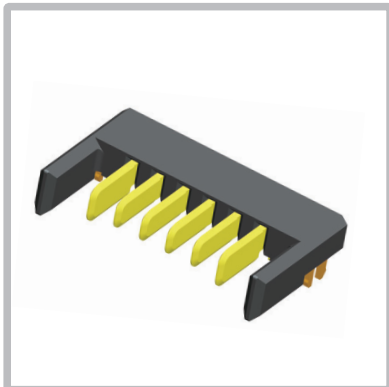
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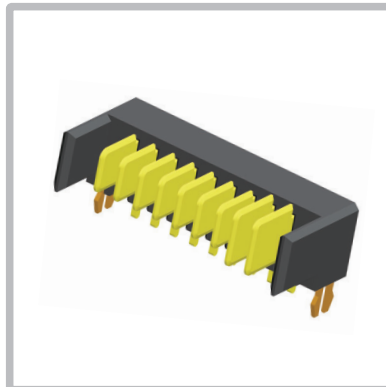
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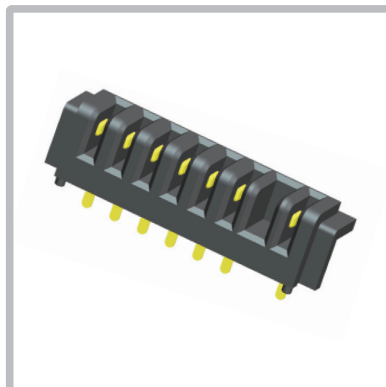


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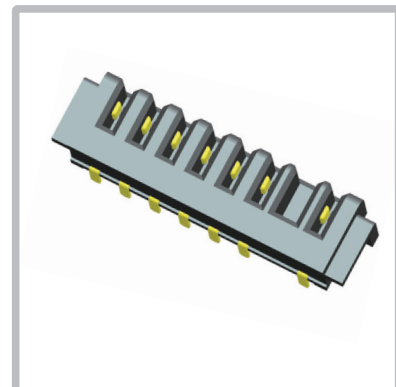


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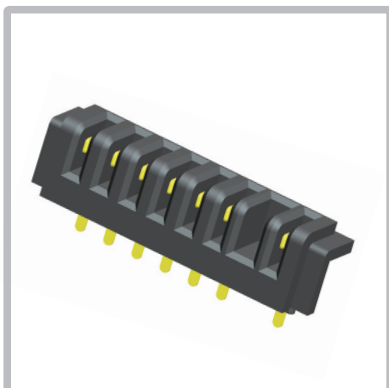
**2.5 mm Pitch
Battery
Connector,
Female**



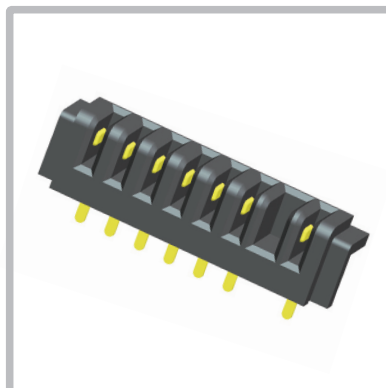
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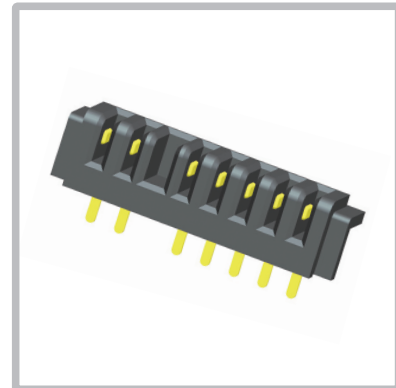
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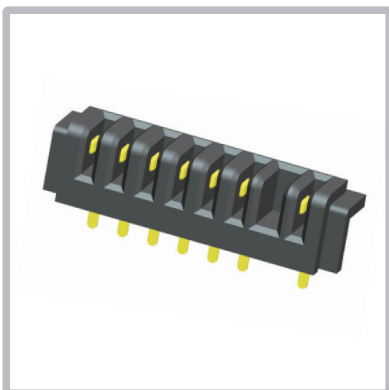


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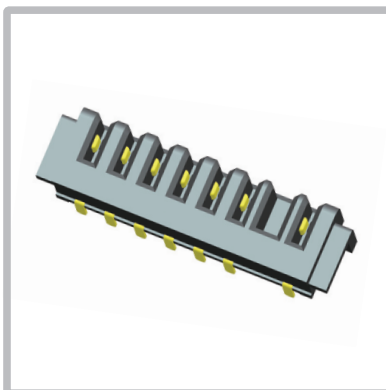


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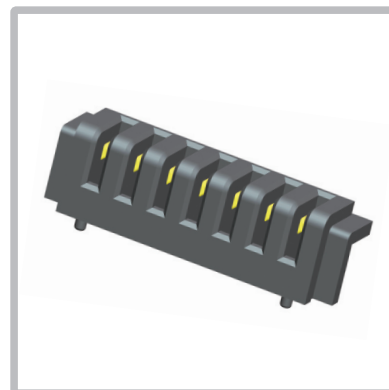
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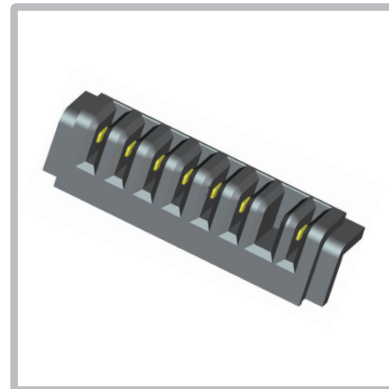
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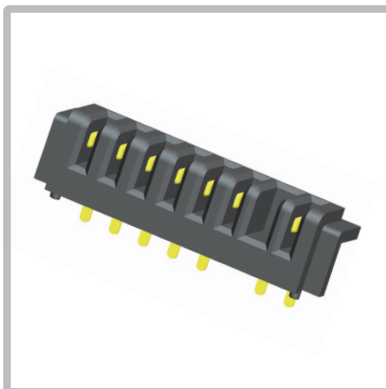
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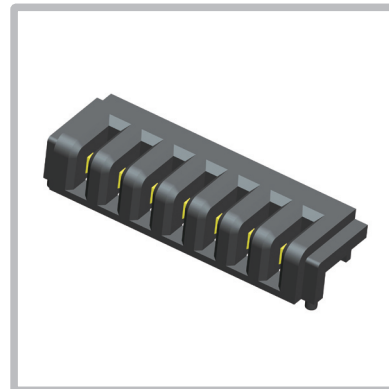
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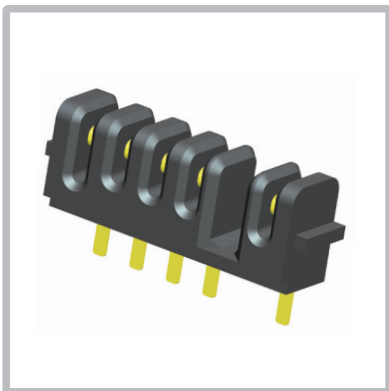
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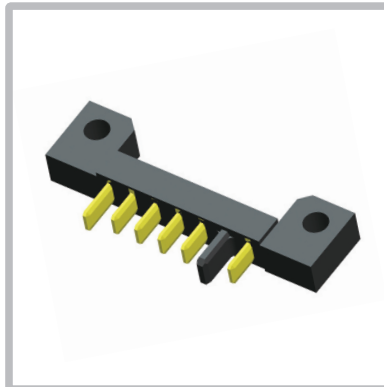


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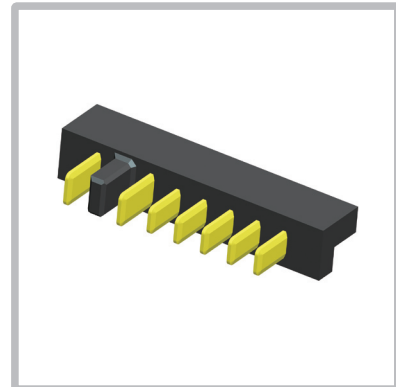


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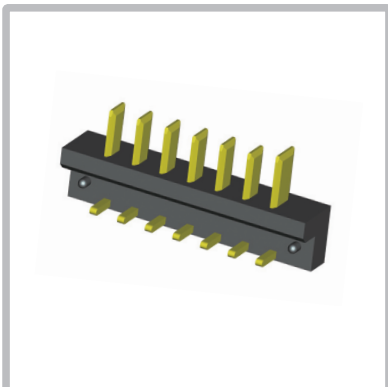
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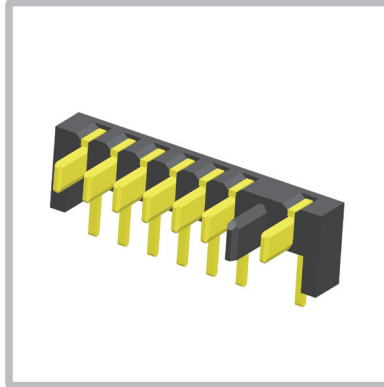
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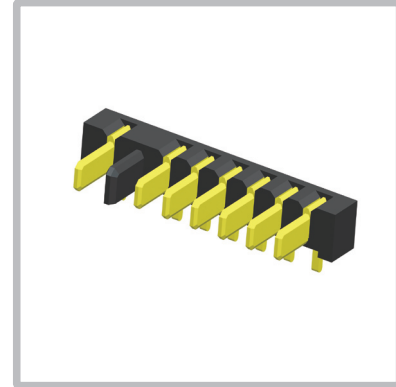
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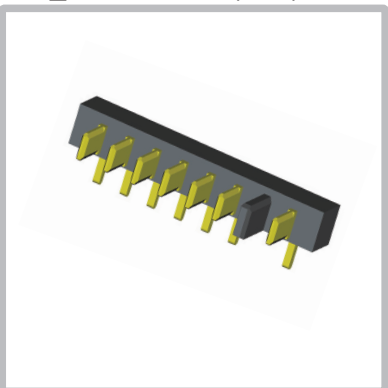
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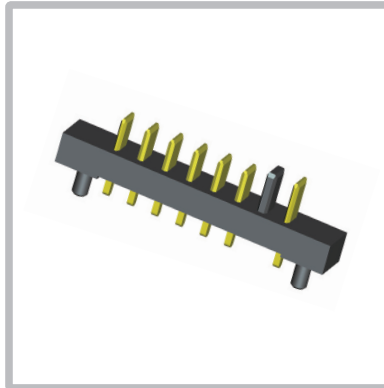
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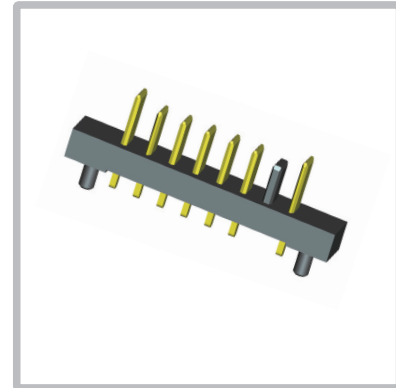
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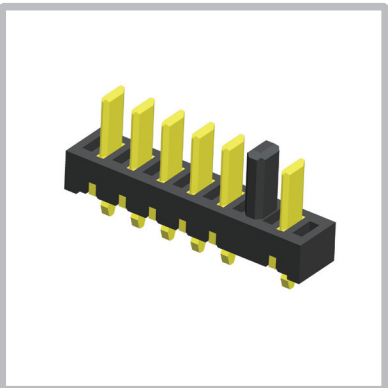
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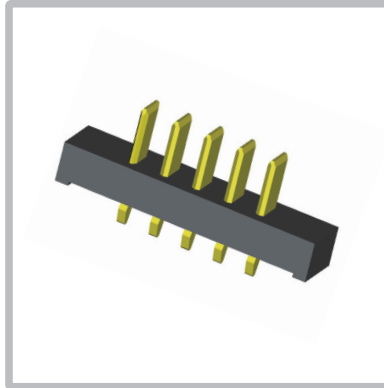
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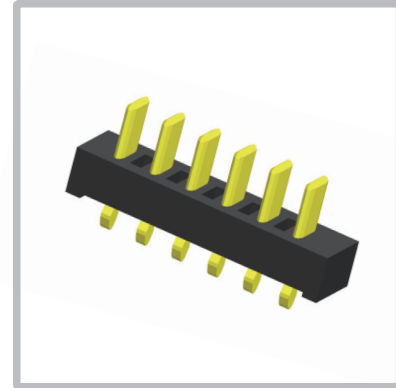
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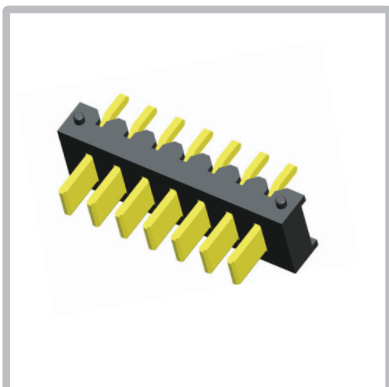


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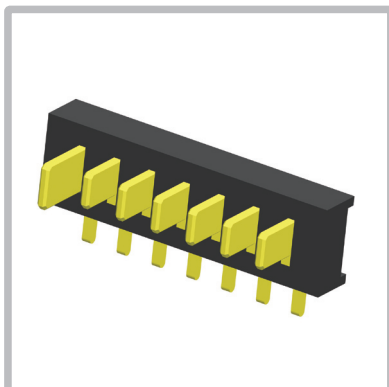


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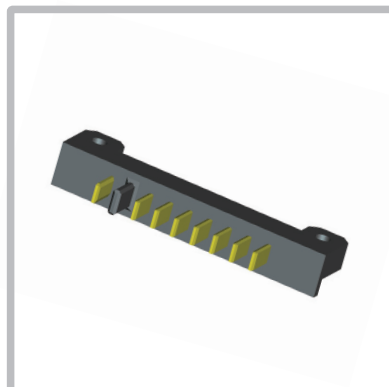
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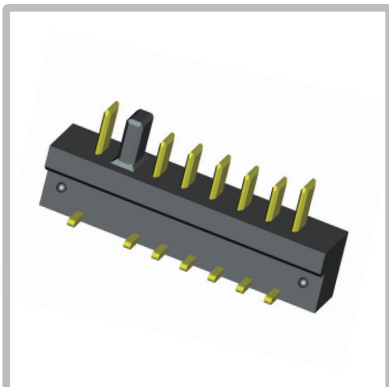
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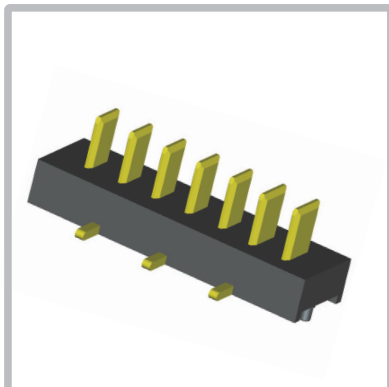
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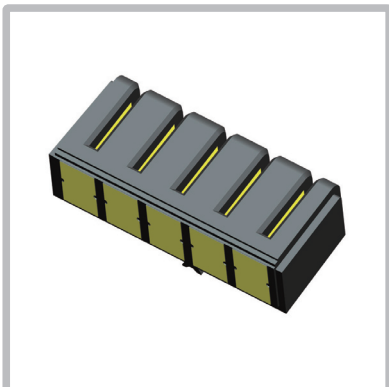
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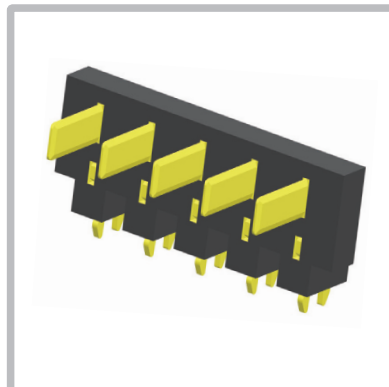
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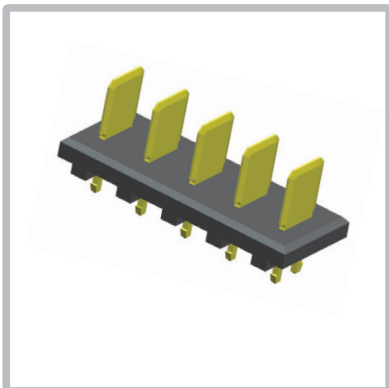
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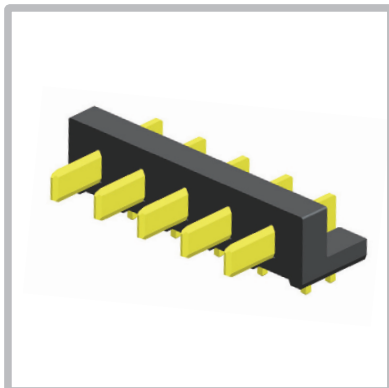
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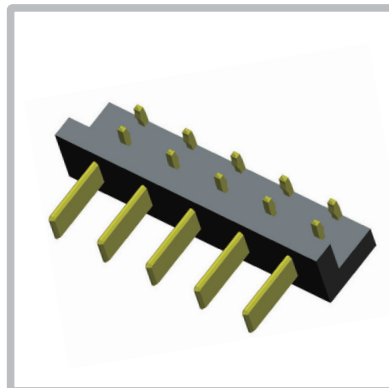
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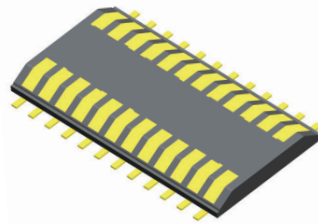


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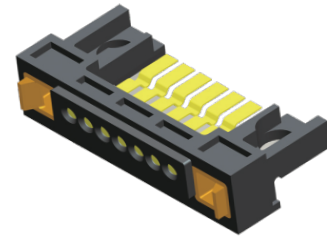


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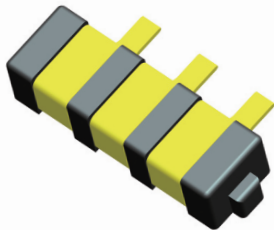
Plane Contact Connector



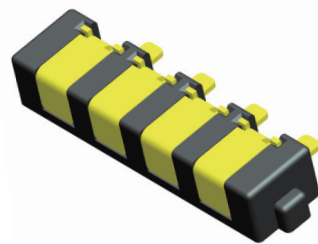
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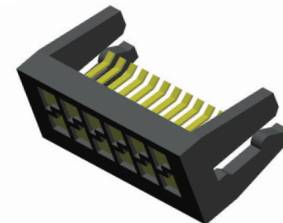
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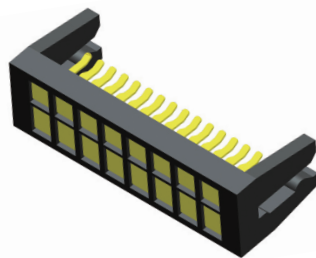
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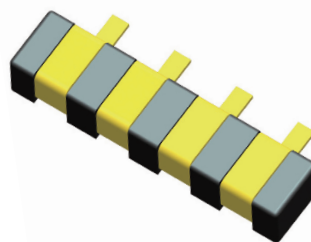
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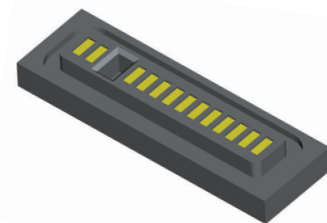
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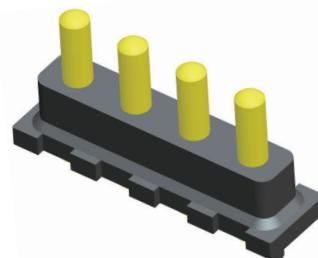


D07_TSR0-01100-04XX

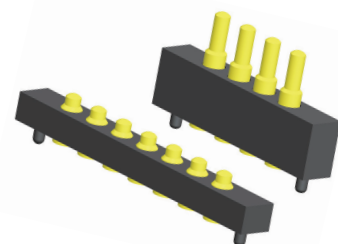


D08_TSR0-05100-00XX

Pogo Pin Connector

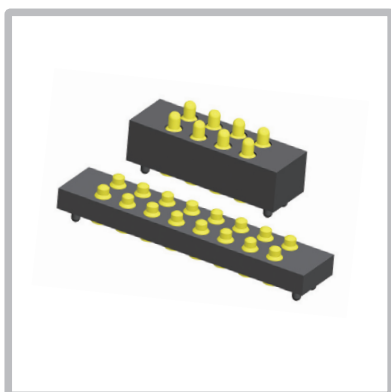


E01_TPB1-0114X-X2XX

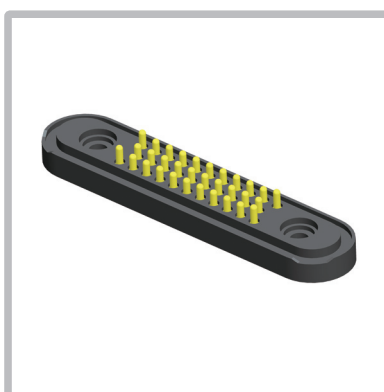


E02_TPE1-01XXX-02XX

CONTENTS



E03_TPE1-01XXX-02XX



E04_TPE0-02032-10XX



E05_TPE0-02032-30XX



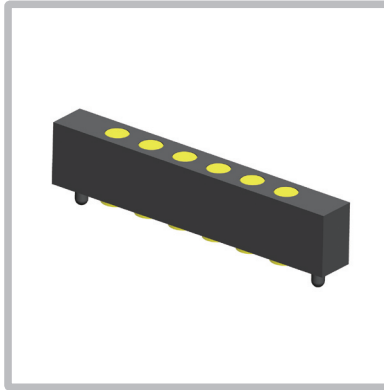
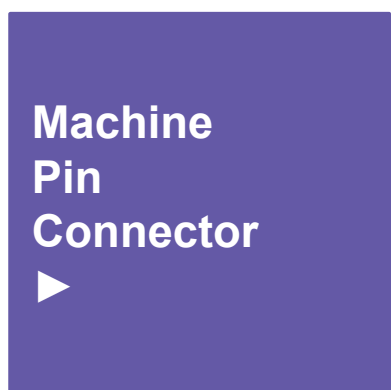
E06_TPR0-01110-70XX



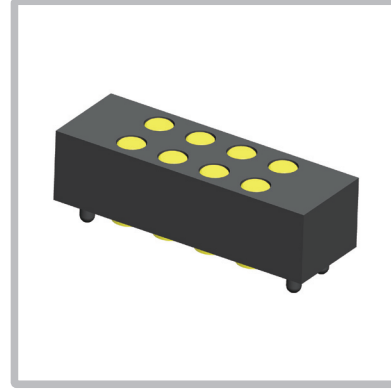
E07_TPR0-01220-70XX



E08_TPE1-03130-70XX



F01_TPE0-011X1-02XX



F02_TPE0-012X1-02XX



F03_TPE0-03130-70XX



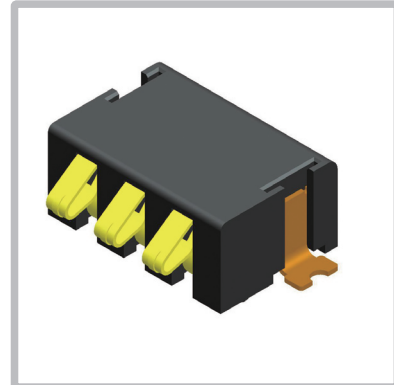
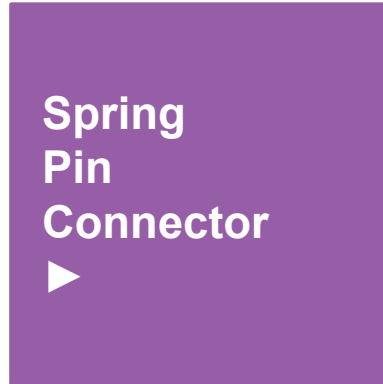
F04_TPE1-02032-X0XX



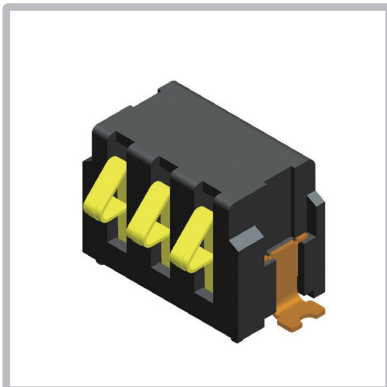
F05_TPR1-01110-70XX



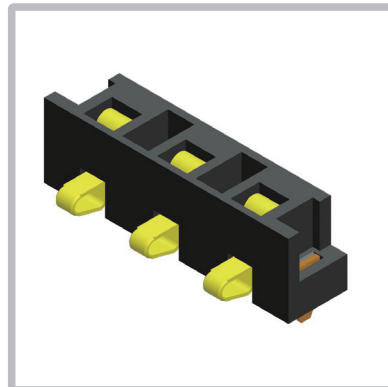
F06_TPR1-01220-70XX



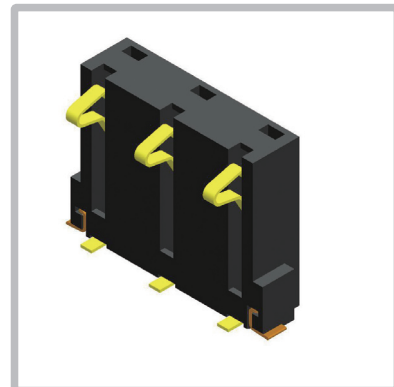
G01_TSB1-130X0-00XX



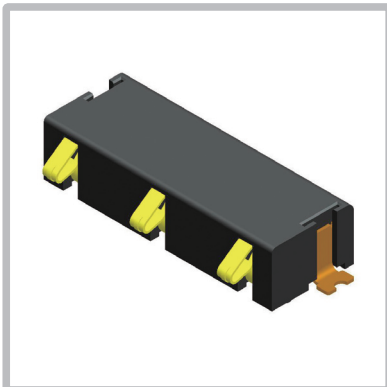
G02_TSB1-131X0-00XX



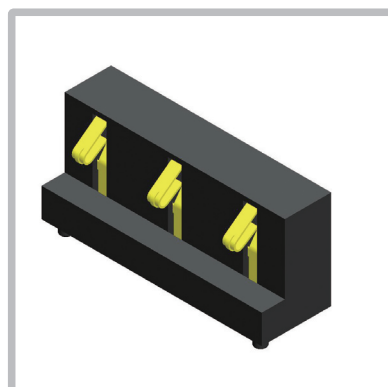
G03_TSD1-02000-30XXA



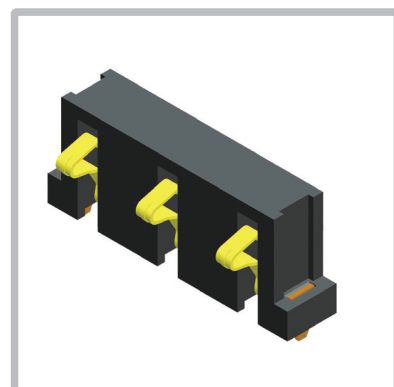
G04_TSN1-01100-03XX



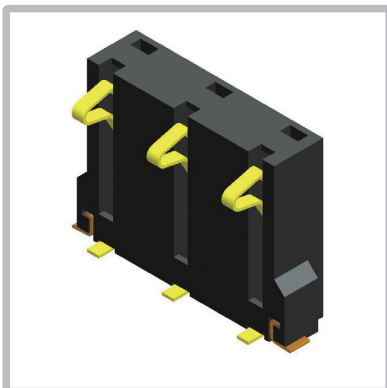
G05_TSN1-02100-03XX



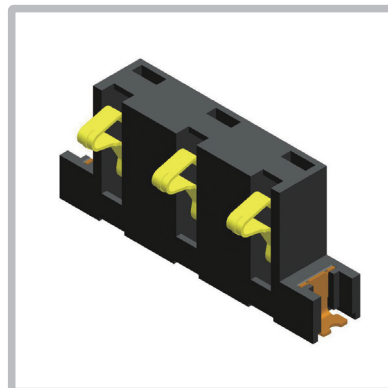
G06_TSN1-02200-03XX



G07_TSN1-02300-03XXA



G08_TSN1-03100-03XX



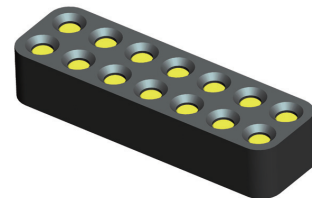
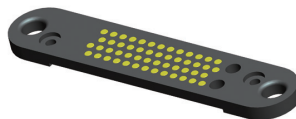
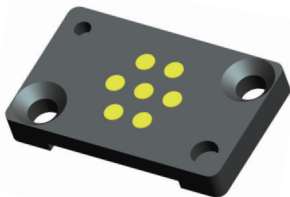
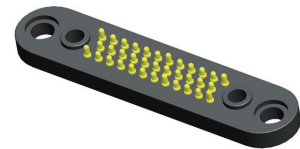
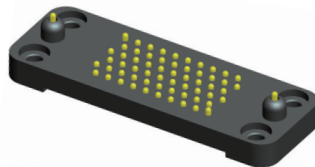
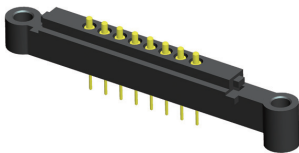
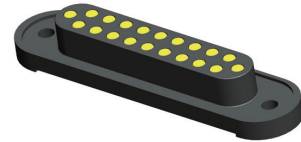
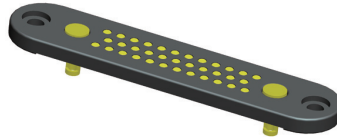
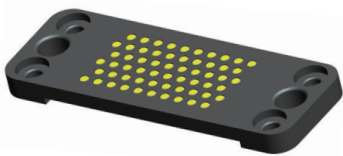
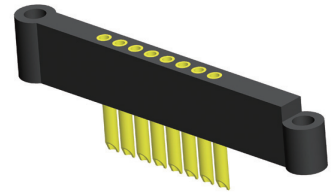
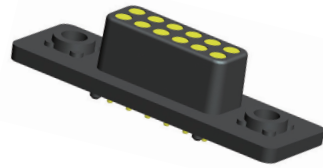
G09_TSN1-06100-03XXA



G10_TSA1-05100-0XXX

CONTENTS

Customer Design



2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-012 $\frac{XX}{a} - \frac{X}{b} 0 \frac{X}{c} \frac{X}{d} A$

$a=03\sim09-3\sim9$ Pins

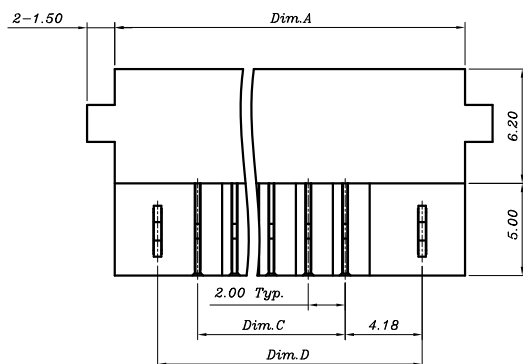
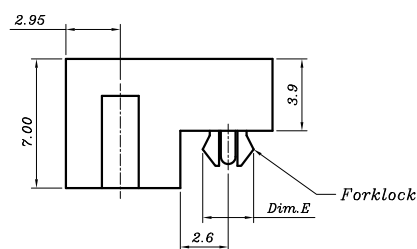
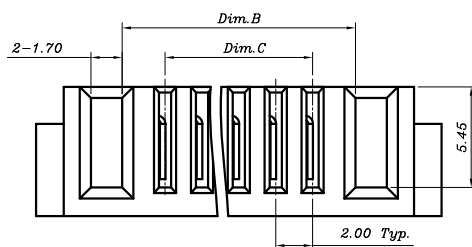
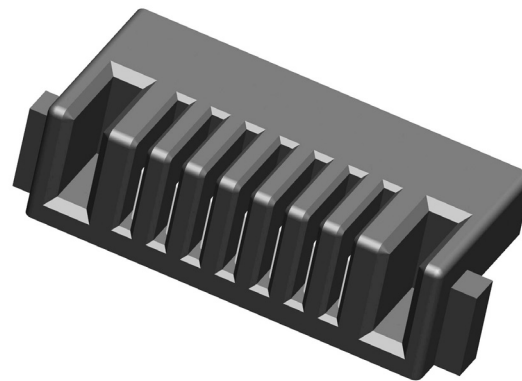
$b=0$ —With Forklock, Dim.E=2.76

1—Without Forklock

2—With Forklock, Dim.E=2.6

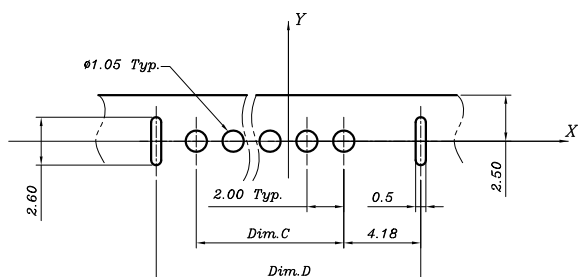
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA0-01203-X0XXA	15.00	8.65	4.00	10.35
* TSA0-01204-X0XXA	17.00	10.65	6.00	12.35
* TSA0-01205-X0XXA	19.00	12.65	8.00	14.35
* TSA0-01206-X0XXA	21.00	14.65	10.00	16.35
* TSA0-01207-X0XXA	23.00	16.65	12.00	18.35
* TSA0-01208-X0XXA	25.00	18.65	14.00	20.35
* TSA0-01209-X0XXA	27.00	20.65	16.00	22.35



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-021 $\frac{XX}{a}$ - 0 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$ A

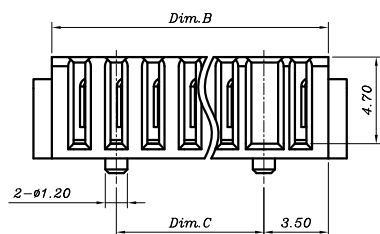
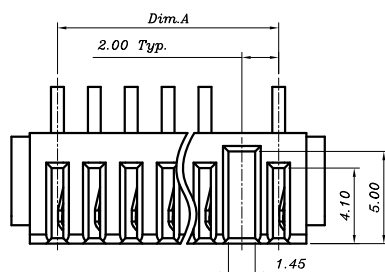
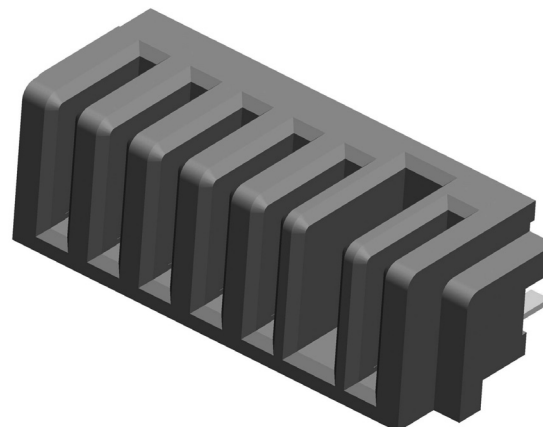
a =05~08-5~8Pins

b =0-SMT Type

1-DIP Type

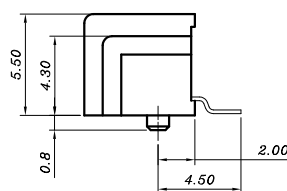
c =Packing Option

d =Plating Option

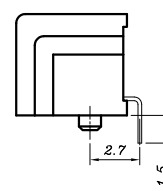


Dimension Information :

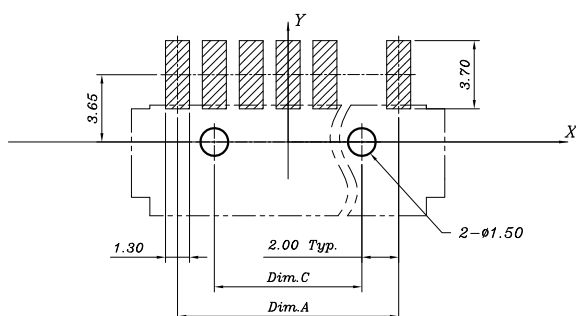
P/N:	Dim.A	Dim.B	Dim.C
TSA0-02105-0XXXXA	10.00	13.00	6.00
TSA0-02106-0XXXXA	12.00	15.00	8.00
TSA0-02107-0XXXXA	14.00	17.00	10.00
* TSA0-02108-0XXXXA	16.00	19.00	12.00



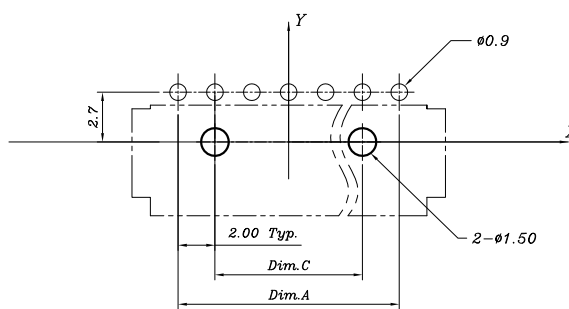
SMT Type



DIP Type



Recommended P.C.B. Layout (SMT Type)
Layout Tolerance = ± 0.05 mm



Recommended P.C.B. Layout (DIP Type)
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-030 $\frac{XX}{a} - \frac{X}{b} \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=04\sim09-4\sim9$ Pins

$b=0$ -Type 0

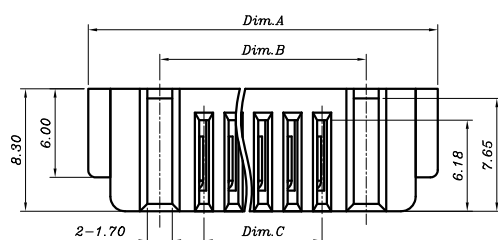
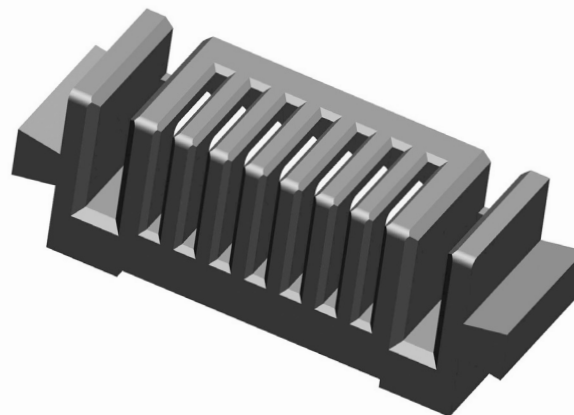
3-Type 3

$c=1$ -Dim.F=1.3, Dim.G=1.5, Dim.I= ϕ 1.30

2-Dim.F=0.8, Dim.G=1.5, Dim.I= ϕ 1.05

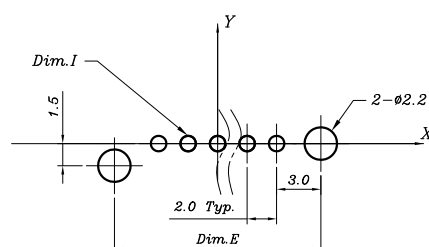
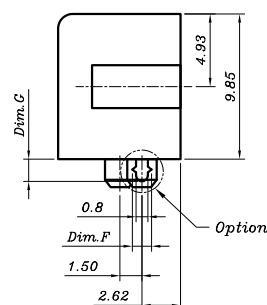
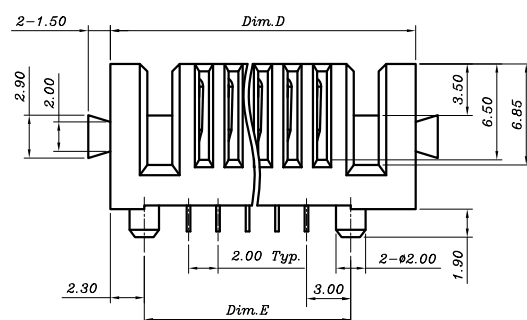
d =Packing Option

e =Plating Option

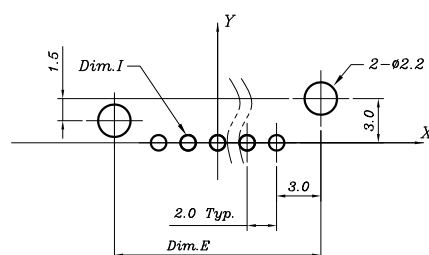


Dimension Information :

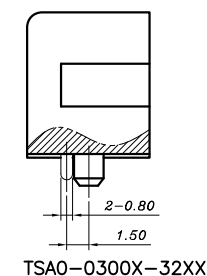
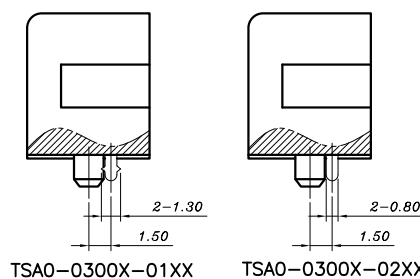
P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
* TSA0-03004-XXXX	21.70	12.00	6.00	18.70	12.00
* TSA0-03005-XXXX	23.70	14.00	8.00	20.70	14.00
* TSA0-03006-XXXX	25.70	16.00	10.00	22.70	16.00
* TSA0-03007-XXXX	27.70	18.00	12.00	24.70	18.00
* TSA0-03008-XXXX	29.70	20.00	14.00	26.70	20.00
* TSA0-03009-XXXX	31.70	22.00	16.00	28.70	22.00



TSA0-0300X-0XXX P.C.B. Layout
Layout Tolerance = ± 0.05 mm



TSA0-0300X-3XXX P.C.B. Layout
Layout Tolerance = ± 0.05 mm



2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-030 $\frac{XX}{a} - \frac{X}{b} \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=04\sim09-4\sim9$ Pins

$b=1$ -Type 1

2-Type 2

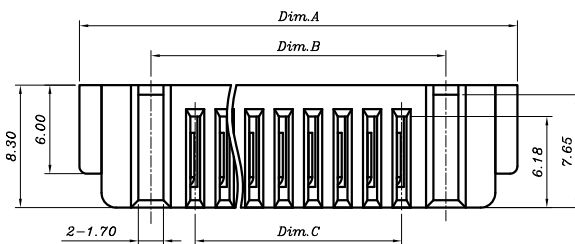
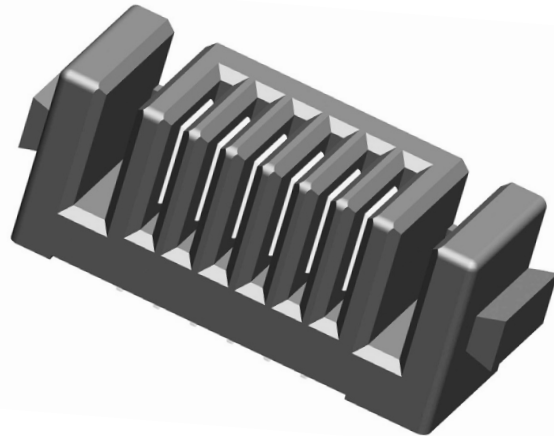
$c=1$ -Dim.F=1.3, Dim.G=1.5, Dim.I= ϕ 1.30

2-Dim.F=0.8, Dim.G=1.5, Dim.I= ϕ 1.05

3-Dim.F=1.3, Dim.G=2.1, Dim.I= ϕ 1.30

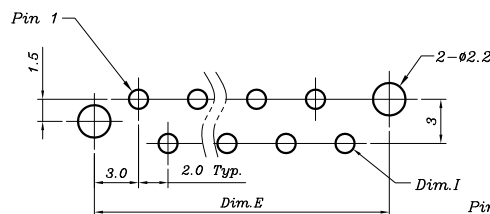
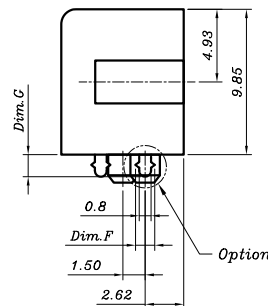
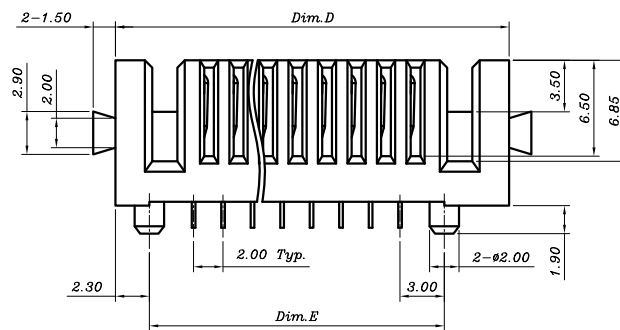
d =Packing Option

e =Plating Option

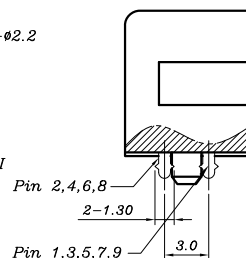


Dimension Information :

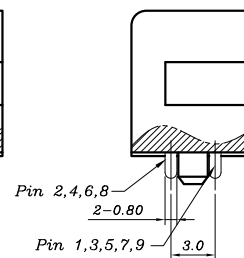
P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
* TSA0-03004-XXXX	21.70	12.00	6.00	18.70	12.00
* TSA0-03005-XXXX	23.70	14.00	8.00	20.70	14.00
* TSA0-03006-XXXX	25.70	16.00	10.00	22.70	16.00
* TSA0-03007-XXXX	27.70	18.00	12.00	24.70	18.00
* TSA0-03008-XXXX	29.70	20.00	14.00	26.70	20.00
* TSA0-03009-XXXX	31.70	22.00	16.00	28.70	22.00



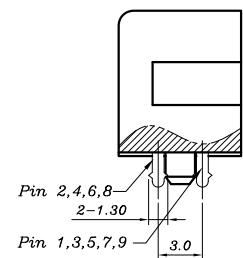
TSA0-030XX-1XXX P.C.B. Layout
Layout Tolerance = ± 0.05 mm



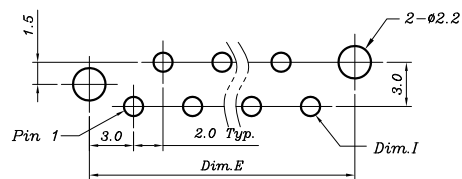
TSA0-030XX-11XX



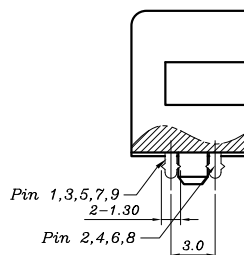
TSA0-030XX-12XX



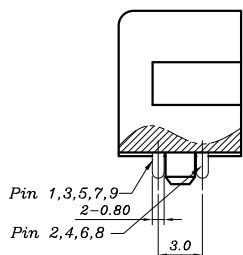
TSA0-030XX-13XX



TSA0-030XX-2XXX P.C.B. Layout
Layout Tolerance = ± 0.05 mm



TSA0-030XX-21XX



TSA0-030XX-22XX

2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-03 $\frac{X}{a} \frac{XX}{b} - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e} A$

$a=1$ —Type1

5—Type5

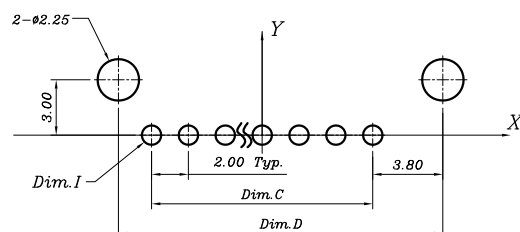
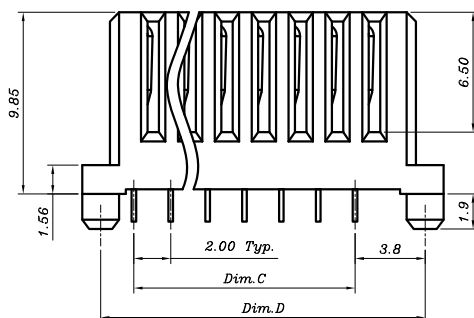
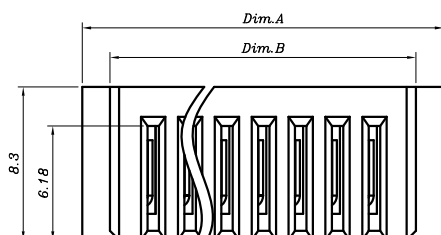
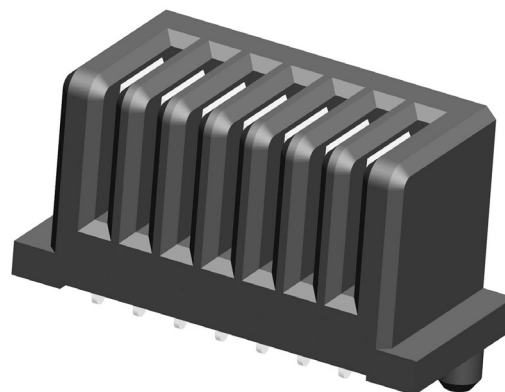
$b=05 \sim 12$ —5~12Pins

$c=2$ —Dim.I= $\phi 1.05$

3—Dim.I= $\phi 1.3$

d —Packing Option

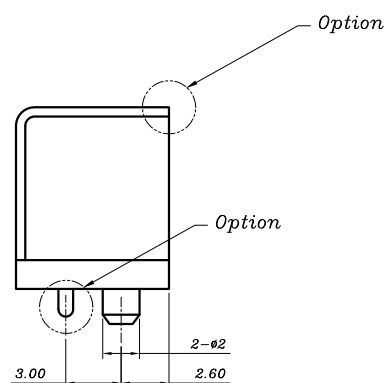
e —Plating Option



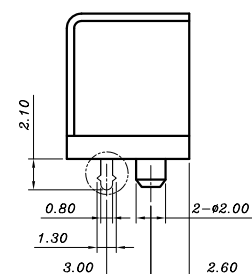
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

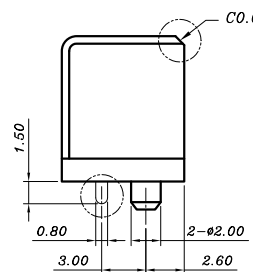
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA0-03X05-0XXXXA	15.60	12.60	8.00	13.60
* TSA0-03X06-0XXXXA	17.60	14.60	10.00	15.60
* TSA0-03X07-0XXXXA	19.60	16.60	12.00	17.60
* TSA0-03X08-0XXXXA	21.60	18.60	14.00	19.60
* TSA0-03X09-0XXXXA	23.60	20.60	16.00	21.60
* TSA0-03X10-0XXXXA	25.60	22.60	18.00	23.60
* TSA0-03X11-0XXXXA	27.60	24.60	20.00	25.60
* TSA0-03X12-0XXXXA	29.60	26.60	22.00	27.60



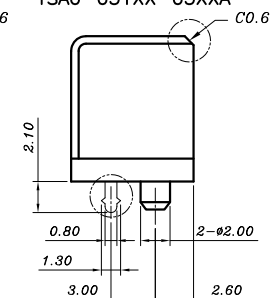
TSA0-031XX-02XXA



TSA0-031XX-03XXA



TSA0-035XX-02XXA



TSA0-035XX-03XXA

2.0mm BATTERY CONNECTOR, FEMALE

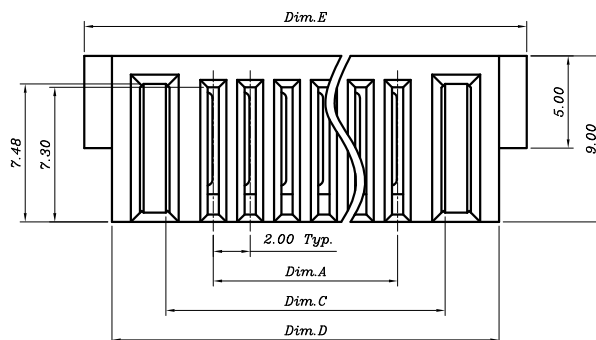
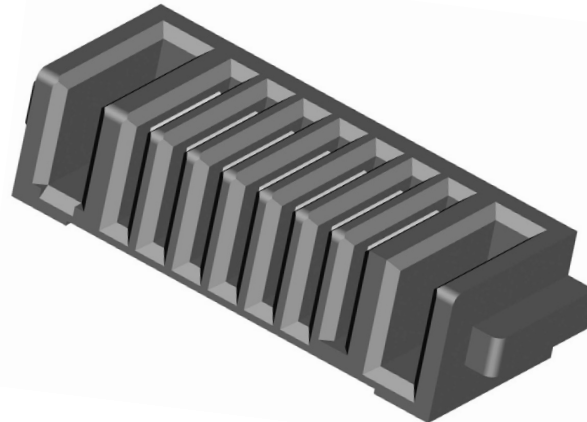
ORDER INFORMATION

TSA0-070 $\frac{XX}{a}$ - 00 $\frac{X}{b} \frac{X}{c}$

$a=04\sim10-4\sim10$ Pins

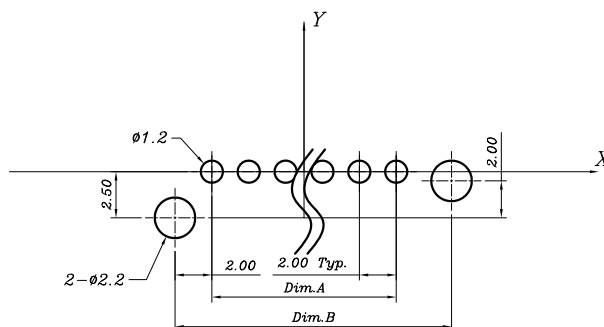
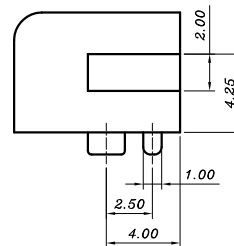
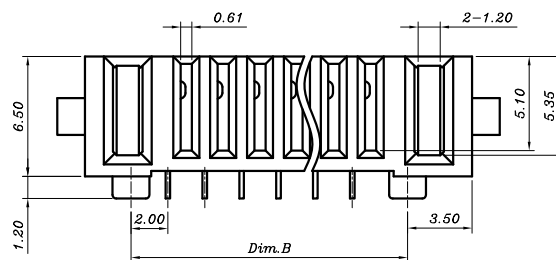
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
TSA0-07004-00XX	6.00	11.00	11.15	17.00	20.00
TSA0-07005-00XX	8.00	13.00	13.15	19.00	22.00
TSA0-07006-00XX	10.00	15.00	15.15	21.00	24.00
TSA0-07007-00XX	12.00	17.00	17.15	23.00	26.00
TSA0-07008-00XX	14.00	19.00	19.15	25.00	28.00
* TSA0-07009-00XX	16.00	21.00	21.15	27.00	30.00
TSA0-07010-00XX	18.00	23.00	23.15	29.00	32.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-080 $\frac{XX}{a}$ - $\frac{X}{b}$ 0 $\frac{X}{c}$ $\frac{X}{d}$ A

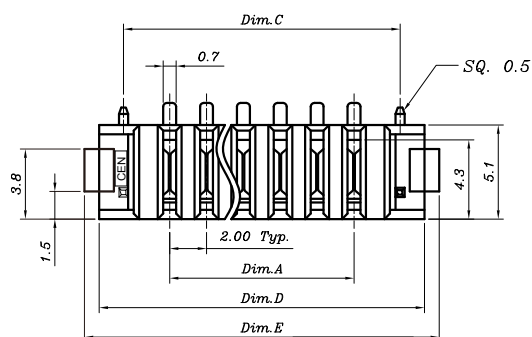
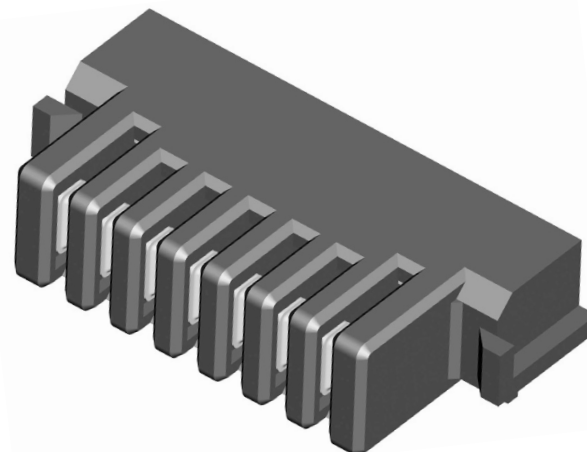
a =04~10-4~10Pins

b =0-Mating Force = 35g/Min. Per Pin

1-Mating Force = 20g/Min. Per Pin

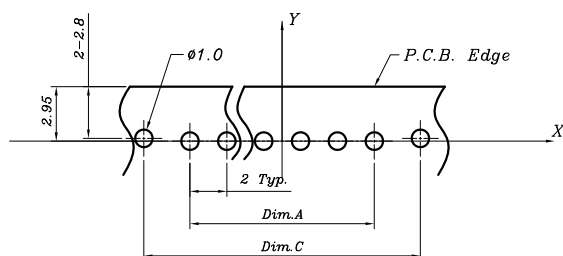
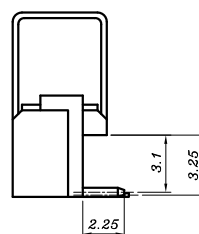
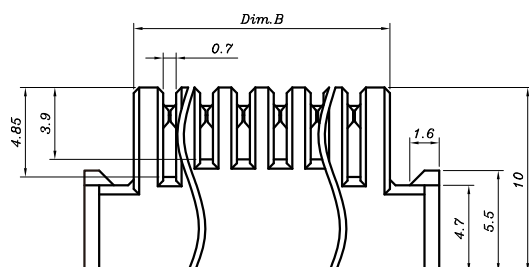
c =Packing Option

d =Platin Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
TSA0-08004-X0XXA	6.00	9.90	11.00	13.65	15.25
TSA0-08005-X0XXA	8.00	11.90	13.00	15.65	17.25
* TSA0-08006-X0XXA	10.00	13.90	15.00	17.65	19.25
TSA0-08007-X0XXA	12.00	15.90	17.00	19.65	21.25
TSA0-08008-X0XXA	14.00	17.90	19.00	21.65	23.25
* TSA0-08009-X0XXA	16.00	19.90	21.00	23.65	25.25
TSA0-08010-X0XXA	18.00	21.90	23.00	25.65	27.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

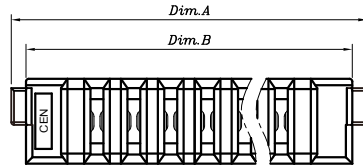
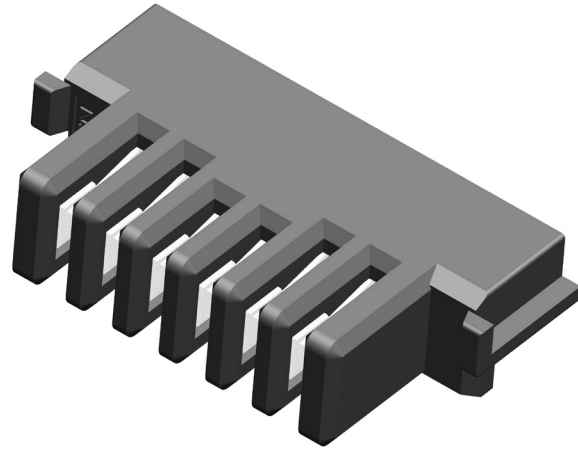
ORDER INFORMATION

TSA0-081 $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~09-5~9Pins

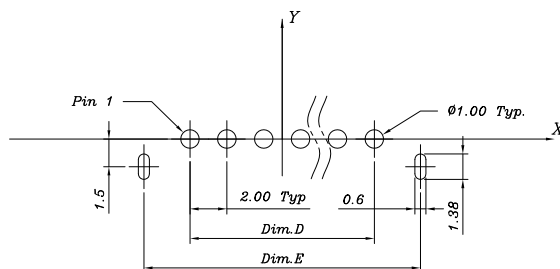
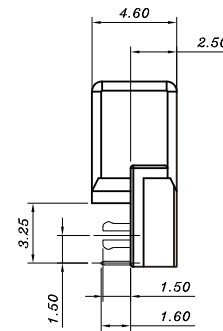
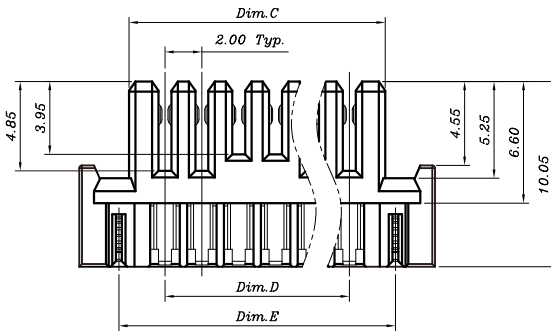
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
TSA0-08105-00XXA	17.30	15.70	11.90	8.00	13.00
* TSA0-08106-00XXA	19.30	17.70	13.90	10.00	15.00
TSA0-08107-00XXA	21.30	19.70	15.90	12.00	17.00
* TSA0-08108-00XXA	23.30	21.70	17.90	14.00	19.00
* TSA0-08109-00XXA	25.30	23.70	19.90	16.00	21.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-100 $\frac{X}{a} \frac{X}{b}$ - 00 $\frac{X}{c} \frac{X}{d}$

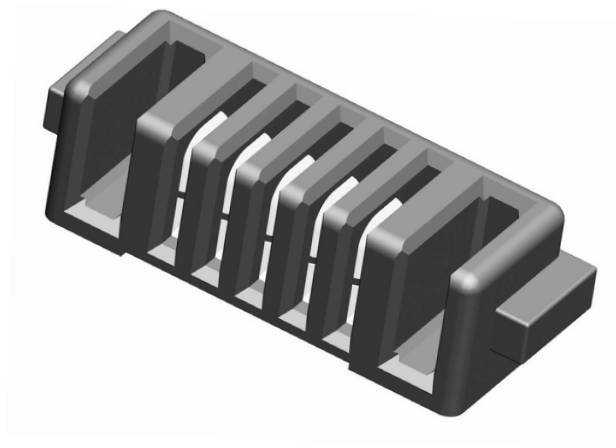
$a=5\sim 9-5\sim 9$ Pins

$b=0$ -Without FoolProof

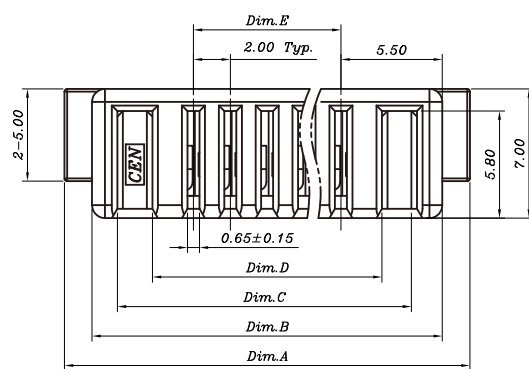
2-Foolproof on The Right

c =Packing Option

d =Plating Option

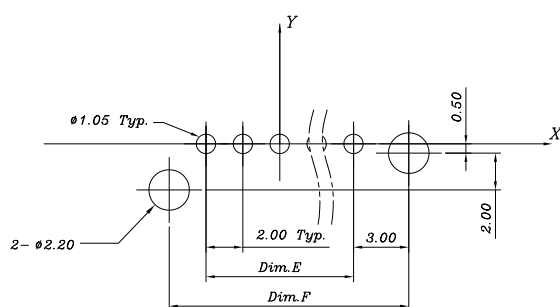
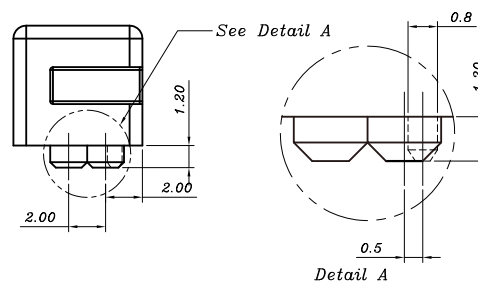
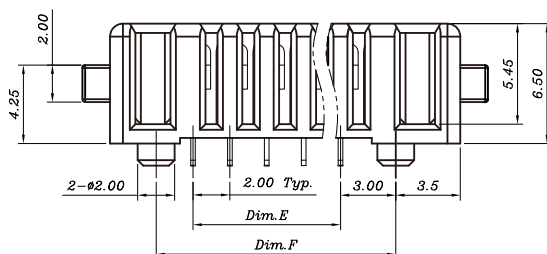


TSA0-100X0-00XX

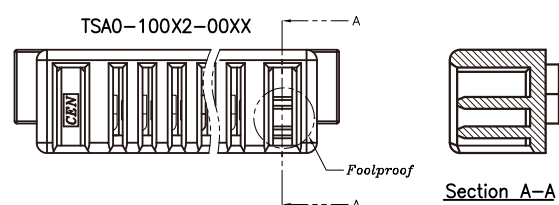


Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
* TSA0-1005X-00XX	22.00	19.00	16.25	12.45	8.00	13.00
TSA0-1006X-00XX	24.00	21.00	18.25	14.45	10.00	15.00
TSA0-1007X-00XX	26.00	23.00	20.25	16.45	12.00	17.00
TSA0-1008X-00XX	28.00	25.00	22.25	18.45	14.00	19.00
* TSA0-1009X-00XX	30.00	27.00	24.25	20.45	16.00	21.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm



2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSA0-110 $\frac{X}{a}$ 0 - $\frac{X}{b}$ 0 $\frac{X}{c}$ $\frac{X}{d}$

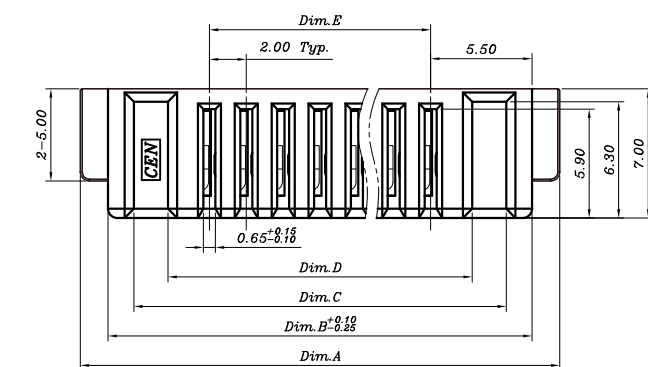
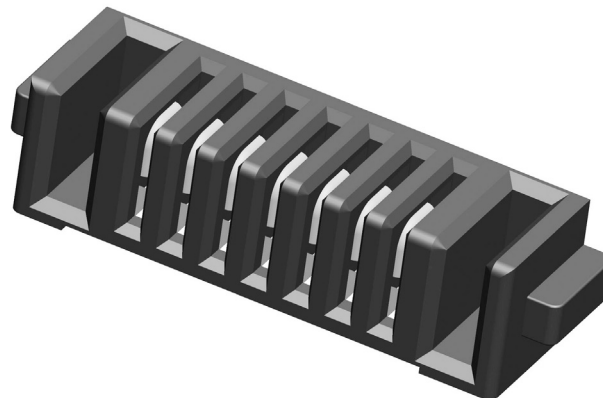
$a=3\sim 9-3\sim 9$ Pins

$b=0$ -Dim.G=1.20

1-Dim.G=1.75

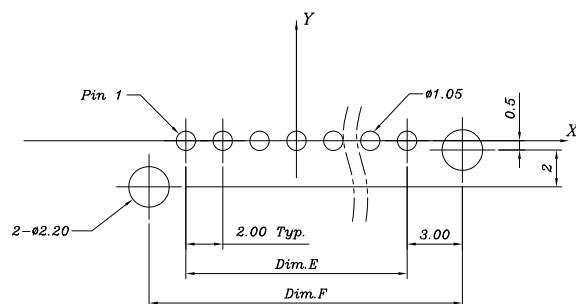
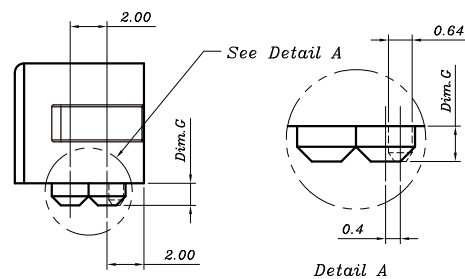
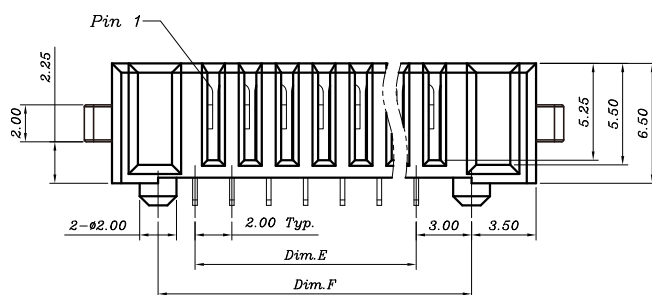
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
* TSA0-11030-X0XX	18.00	15.00	12.20	8.50	4.00	9.00
* TSA0-11040-X0XX	20.00	17.00	14.20	10.50	6.00	11.00
* TSA0-11050-X0XX	22.00	19.00	16.20	12.50	8.00	13.00
* TSA0-11070-X0XX	26.00	23.00	20.20	16.50	12.00	17.00
* TSA0-11080-X0XX	28.00	25.00	22.20	18.50	14.00	19.00
* TSA0-11090-X0XX	30.00	27.00	24.20	20.50	16.00	21.00



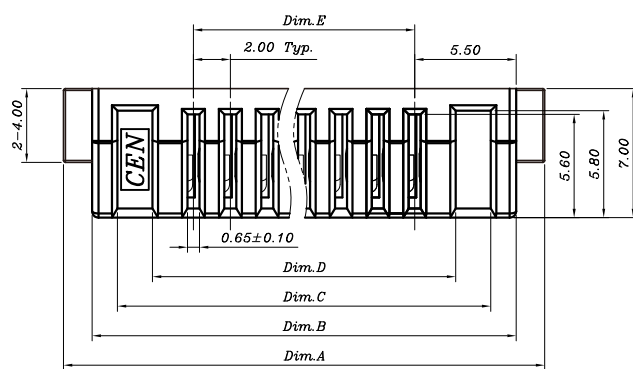
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

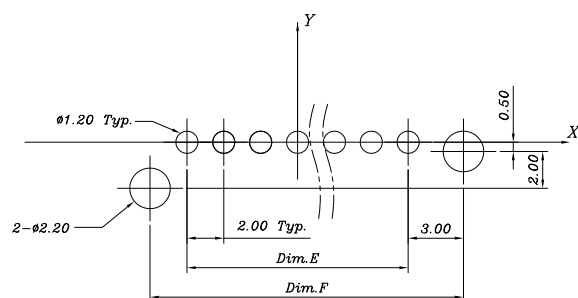
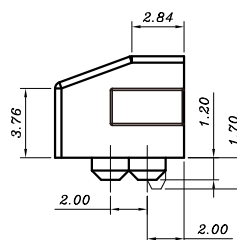
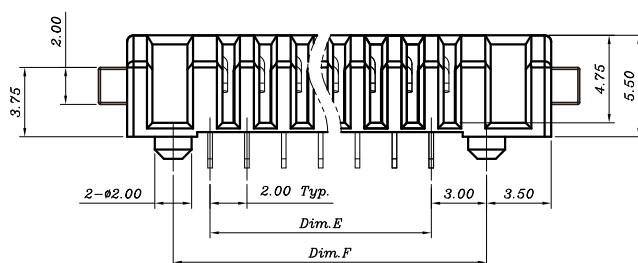
TSA0-120 $\frac{X}{a}$ 0 - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =5~9-5~9Pins
 b =Packing Option
 c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
TSA0-12050-00XX	22.10	19.00	16.25	12.45	8.00	13.00
TSA0-12060-00XX	24.10	21.00	18.25	14.45	10.00	15.00
TSA0-12070-00XX	26.10	23.00	20.25	16.45	12.00	17.00
* TSA0-12080-00XX	28.10	25.00	22.25	18.45	14.00	19.00
* TSA0-12090-00XX	30.10	27.00	24.25	20.45	16.00	21.00



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, FEMALE

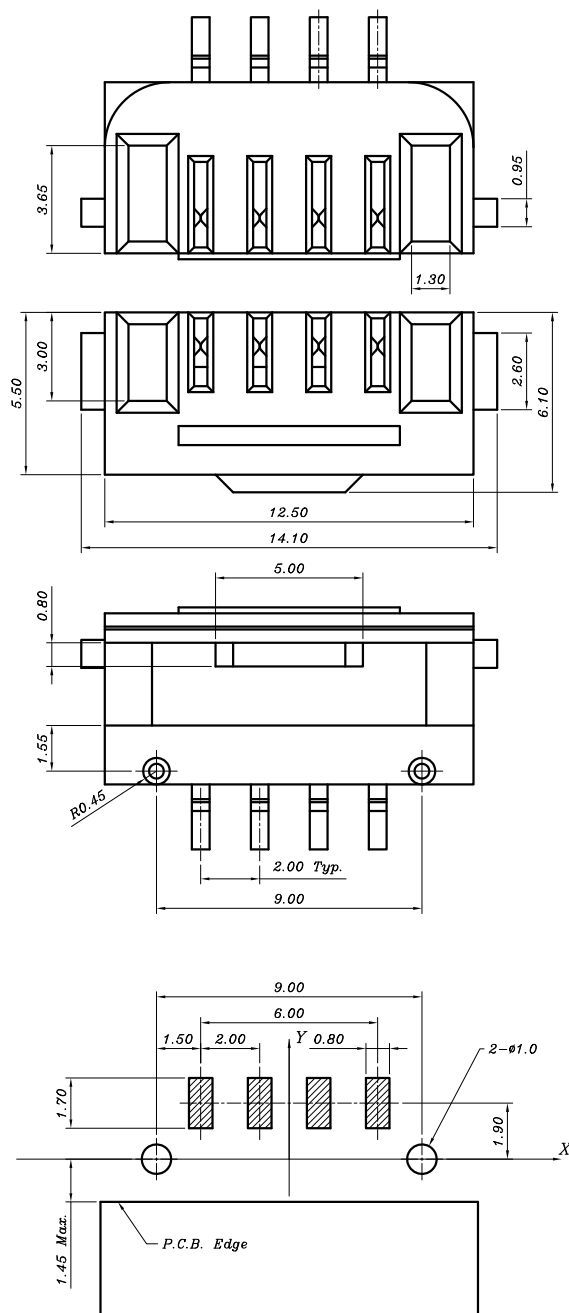
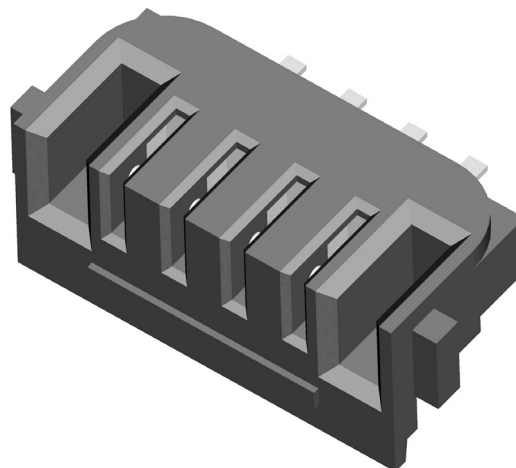
ORDER INFORMATION

TSA0-150 $\frac{04}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =04-4Pins

b =Packing Option

c =Plating Option



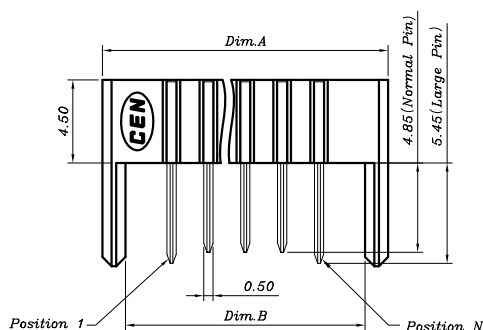
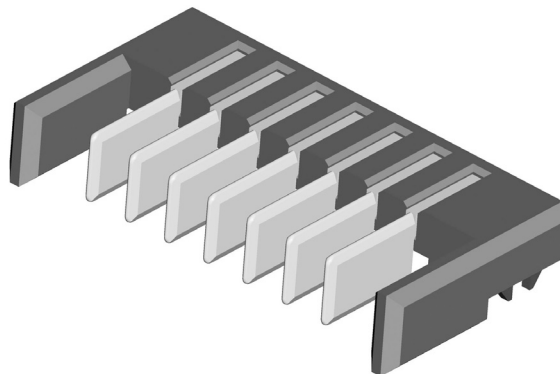
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

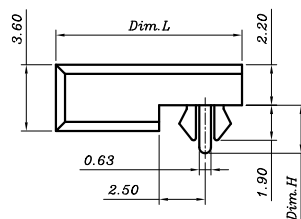
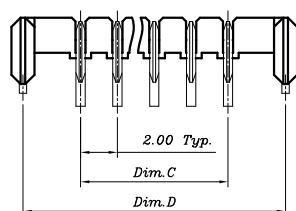
TSA1-01 $\frac{X}{a} \frac{XX}{b} - \frac{X}{c} 0 \frac{X}{d} \frac{X}{e} A$

$a=1,3$ —Large Pin on The Position 1&N
 2—Large Pin on The Position N
 7—Large Pin on The Position 1
 A,C—Large Pin on The Position 1&2
 B—Large Pin on The Position N&N-1
 4,5—All are Normal Pin
 8—All are Large Pin
 $b=03\sim09$ —3~9Pins
 c =Terminal's Material Option
 d =Packing Option
 e =Plating Option



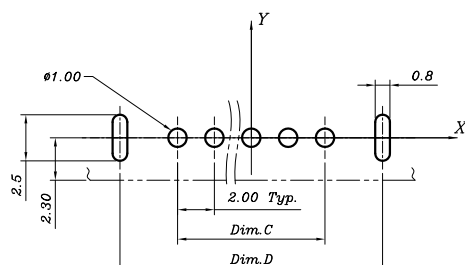
Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-01X03-X0XXA	11.50	9.00	4.00	10.25
TSA1-01X04-X0XXA	13.50	11.00	6.00	12.25
* TSA1-01X05-X0XXA	15.50	13.00	8.00	14.25
* TSA1-01X06-X0XXA	17.50	15.00	10.00	16.25
* TSA1-01X07-X0XXA	19.50	17.00	12.00	18.25
TSA1-01X08-X0XXA	21.50	19.00	14.00	20.25
* TSA1-01X09-X0XXA	23.50	21.00	16.00	22.25

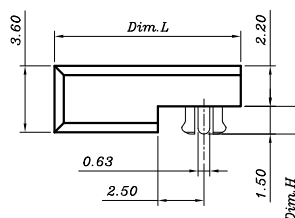


Dimension Information :

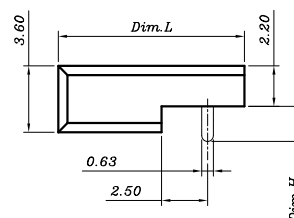
P/N:	Dim.H	Dim.L
TSA1-011XX-00XXA	2.00	10.10
TSA1-012XX-00XXA	2.60	10.10
TSA1-013XX-00XXA	2.60	10.10
TSA1-014XX-00XXA	2.60	10.10
TSA1-015XX-40XXA	1.50	9.35
TSA1-015XX-00XXA	2.60	9.35
TSA1-017XX-00XXA	2.00	10.10
TSA1-018XX-00XXA	2.00	10.10
TSA1-01AXX-00XXA	2.00	10.10
TSA1-01BXX-00XXA	2.00	10.10
TSA1-01CXX-00XXA	2.00	10.10



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm



TSA1-015XX-40XXA



TSA1-01AXX-00XXA

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-02 $\frac{X}{a} \frac{XX}{b} - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e} A$

$a=1$ -Dim.E=1.8

2-Dim.E=2.2

$b=05\sim09$ -5~9Pins

$c=0$ -Large Pin on The Position N,Other are Short Pin

1-All are Large Pin

2-Large Pin on The Position 1,Other are Short Pin

3-Large Pin on The Position 1&N

4-All are Short Pin

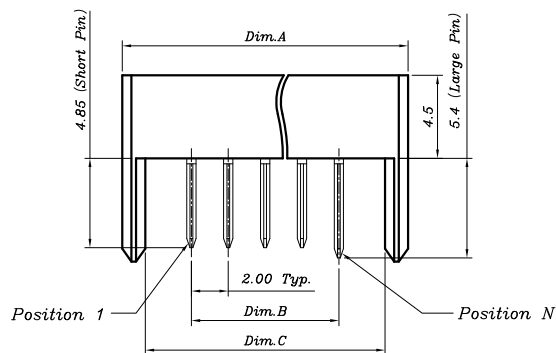
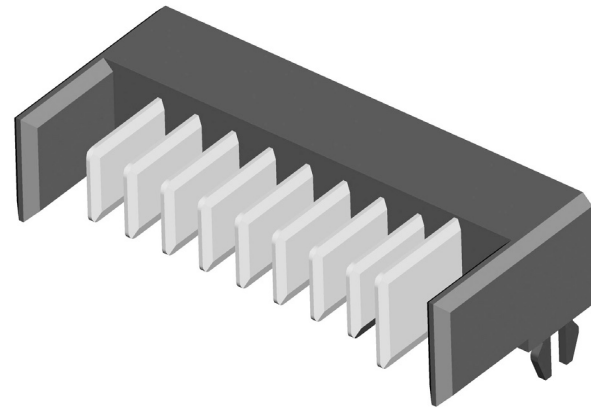
5-Large Pin on The Position N-1,Other are Short Pin

6-Large Pin on The Position 1&2,Other are Short Pin

7-Large Pin on The Position N&N-1,Other are Short

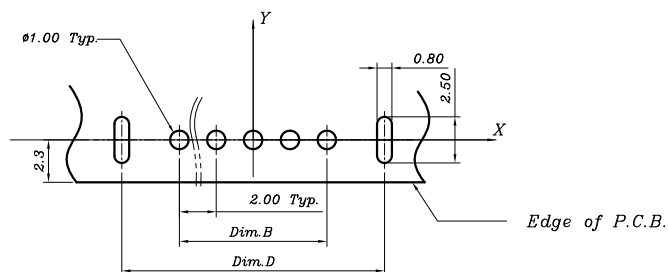
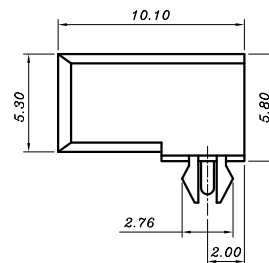
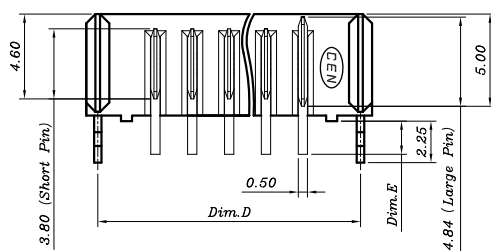
d =Packing Option

e =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-02X05-OXXXXA	15.50	8.00	13.00	14.25
* TSA1-02X06-OXXXXA	17.50	10.00	15.00	16.25
* TSA1-02X07-OXXXXA	19.50	12.00	17.00	18.25
* TSA1-02X08-OXXXXA	21.50	14.00	19.00	20.25
* TSA1-02X09-OXXXXA	23.50	16.00	21.00	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

$$TSA1-023 \quad \frac{XX}{a} - 0 \frac{X}{b} \frac{X}{c} \frac{X}{d} A$$

$\alpha=05\sim09-5\sim9$ Pins

$b=1$ - All are Large Pin

6—Large Pin on The Position N-1, Other are Short Pin

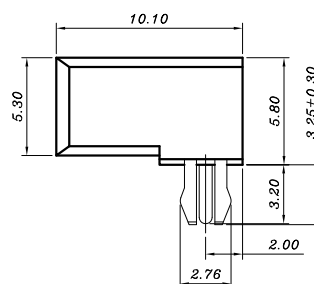
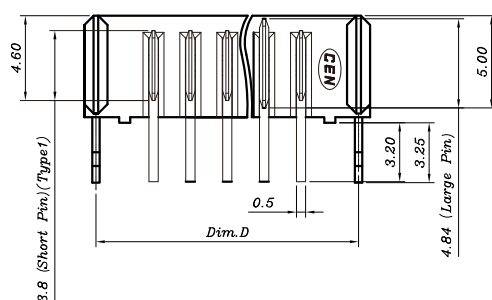
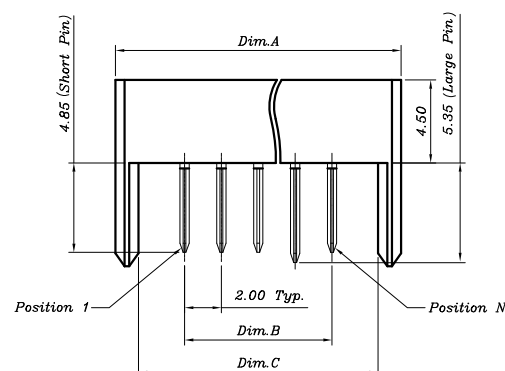
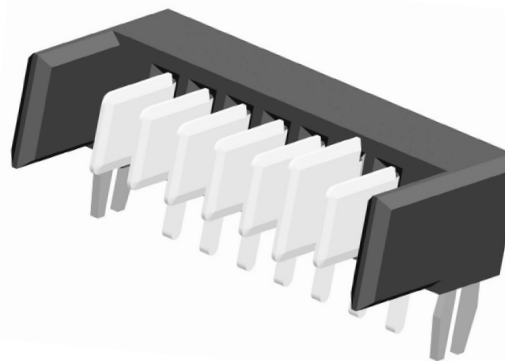
7-Large Pin on The Position 1&2&N-1&N,
Other are Short Pin (Type1)

8-Large Pin on The Position 1&2&N-1&N,
Other are Short Pin (Type2)

9-Large Pin on The Position 1&2&N-1&N,
Other are Short Pin (Type3)

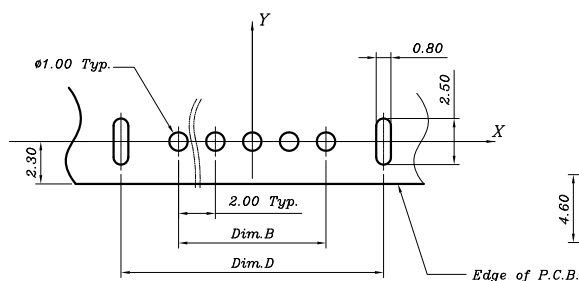
`c=Packing` Option

d =Plating Option

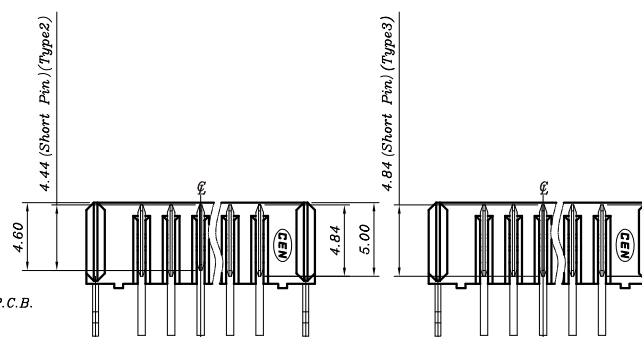


Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-02305-0XXXX	15.50	8.00	13.00	14.25
* TSA1-02306-0XXXX	17.50	10.00	15.00	16.25
* TSA1-02307-0XXXX	19.50	12.00	17.00	18.25
* TSA1-02308-0XXXX	21.50	14.00	19.00	20.25
* TSA1-02309-0XXXX	23.50	16.00	21.00	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm



TSA1-023XX-08XXA

TSA1-023XX-09XXA

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-0260 $\frac{X}{a} - \frac{X}{b} 0 \frac{X}{c} \frac{X}{d}$

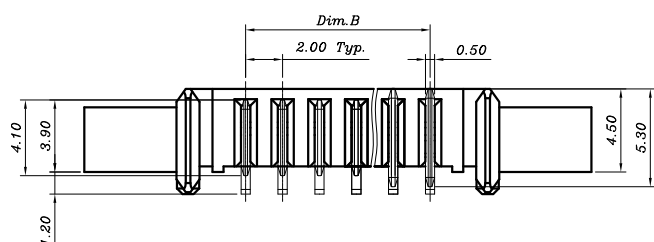
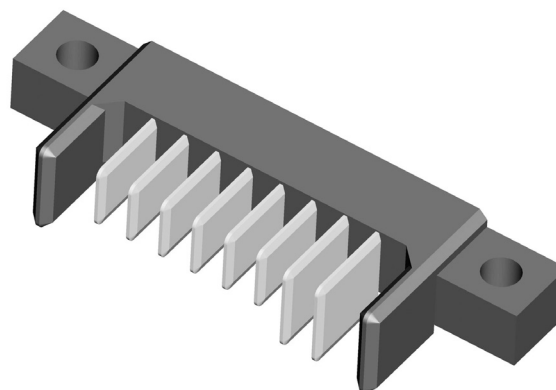
$a=5\sim 9-5\sim 9$ Pins

$b=4$ -Dim.G=4.25

5-Dim.G=4.95

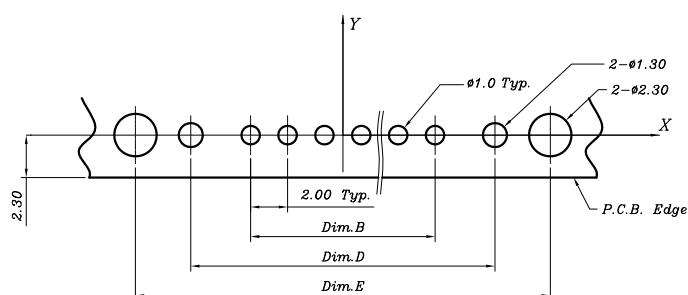
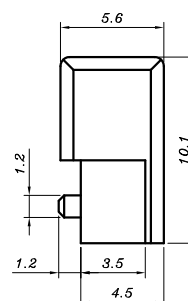
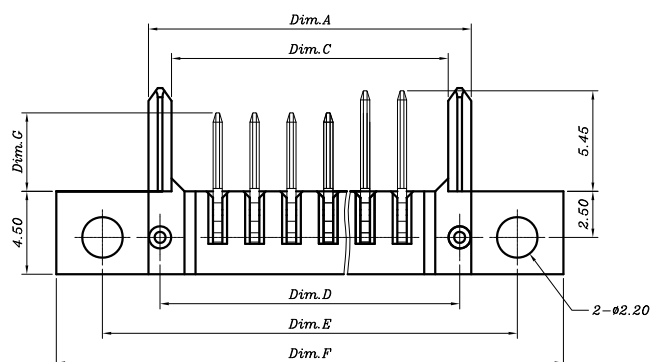
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
TSA1-02605-X0XX	15.50	8.00	13.00	14.25	20.50	25.50
TSA1-02606-X0XX	17.50	10.00	15.00	16.25	22.50	27.50
TSA1-02607-X0XX	19.50	12.00	17.00	18.25	24.50	29.50
* TSA1-02608-X0XX	21.50	14.00	19.00	20.25	26.50	31.50
TSA1-02609-X0XX	23.50	16.00	21.00	22.25	28.50	33.50



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

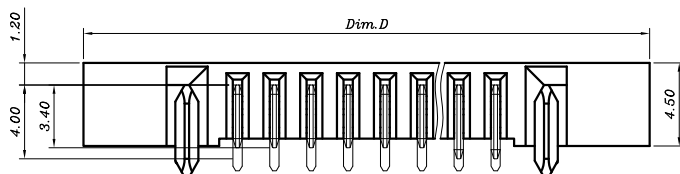
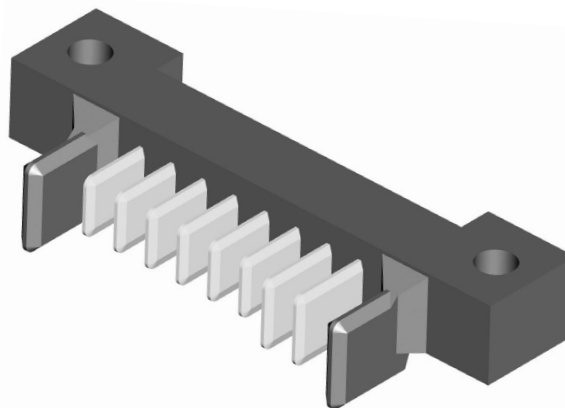
ORDER INFORMATION

TSA1-0270 $\frac{X}{a}$ - 40 $\frac{X}{b}$ $\frac{X}{c}$

a =5~9-5~9Pins

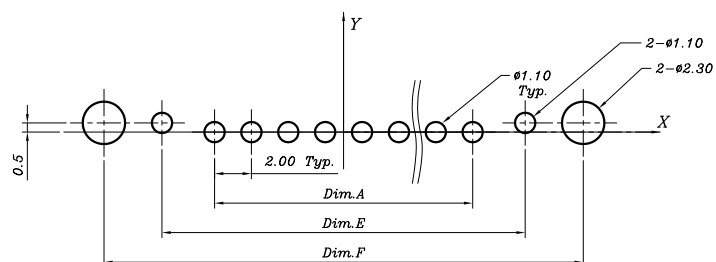
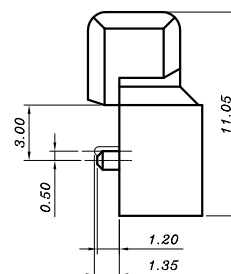
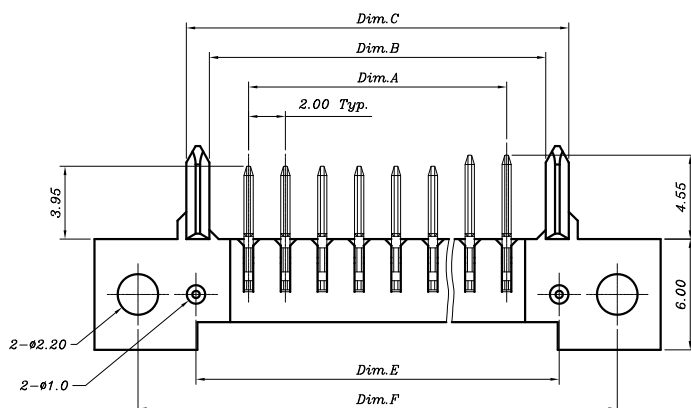
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
TSA1-02705-40XX	08.00	12.25	14.75	24.70	13.70	20.00
TSA1-02706-40XX	10.00	14.25	16.75	26.70	15.70	22.00
TSA1-02707-40XX	12.00	16.25	18.75	28.70	17.70	24.00
* TSA1-02708-40XX	14.00	18.25	20.75	30.70	19.70	26.00
TSA1-02709-40XX	16.00	20.25	22.75	32.70	21.70	28.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

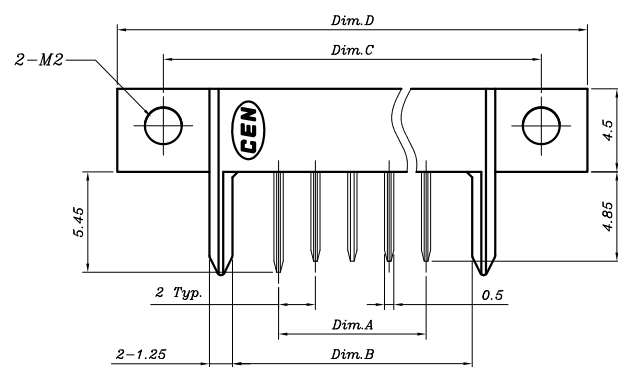
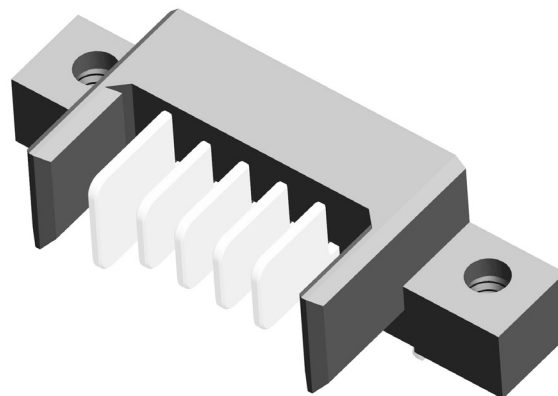
ORDER INFORMATION

TSA1-028 $\frac{XX}{a}$ - 20 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~09-5~9Pins

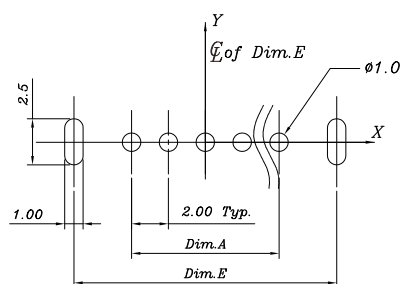
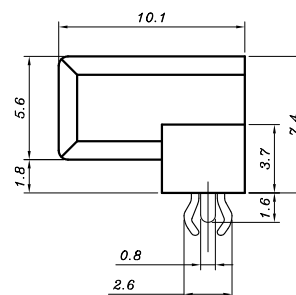
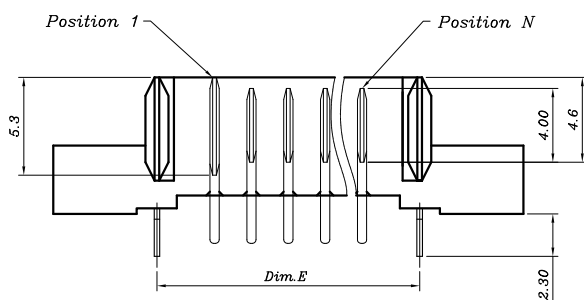
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
* TSA1-02805-20XXA	8.00	13.00	20.50	25.50	14.25
TSA1-02806-20XXA	10.00	15.00	22.50	27.50	16.25
TSA1-02807-20XXA	12.00	17.00	24.50	29.50	18.25
TSA1-02808-20XXA	14.00	19.00	24.50	31.50	20.25
TSA1-02809-20XXA	16.00	21.00	26.50	33.50	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

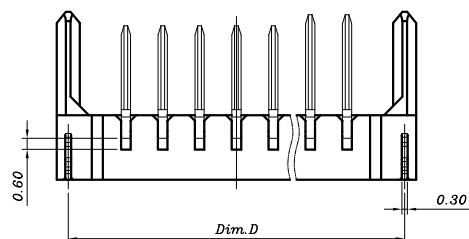
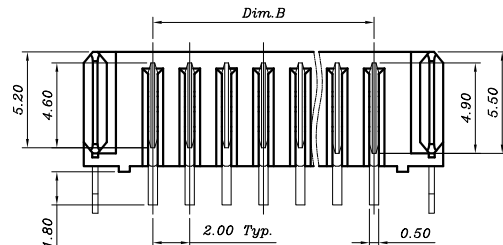
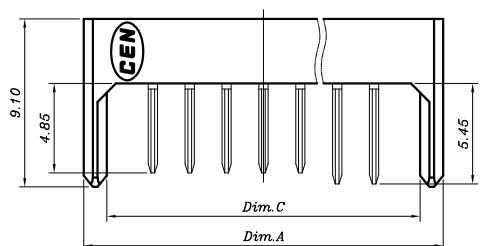
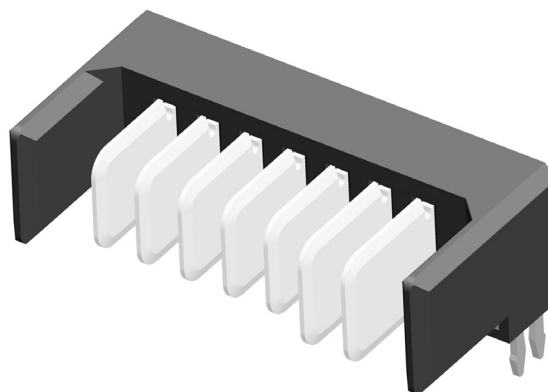
ORDER INFORMATION

TSA1-029 $\frac{XX}{a}$ - 02 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~09-5~9Pins

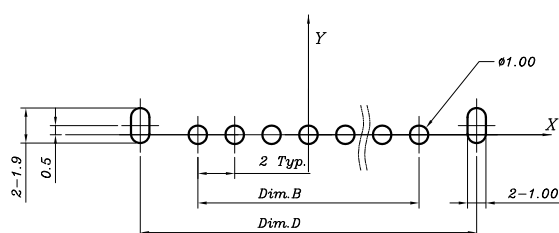
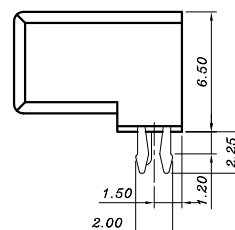
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-02905-02XXA	15.50	8.00	13.00	14.25
TSA1-02906-02XXA	17.50	10.00	15.00	16.25
* TSA1-02907-02XXA	19.50	12.00	17.00	18.25
TSA1-02908-02XXA	21.50	14.00	19.00	20.25
TSA1-02909-02XXA	23.50	16.00	21.00	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

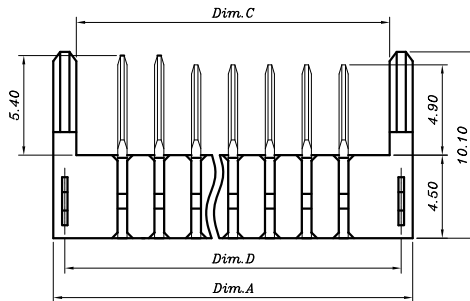
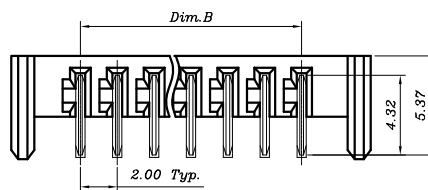
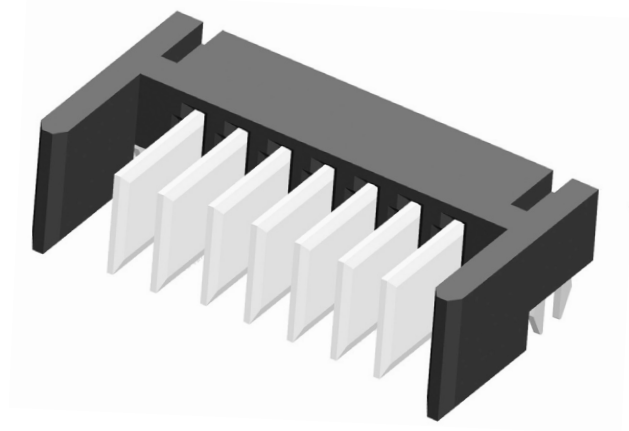
ORDER INFORMATION

TSA1-032 $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =05~12~5~12Pins

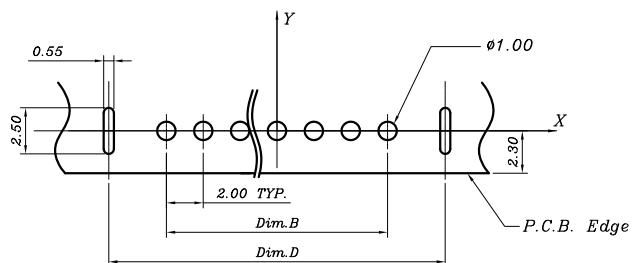
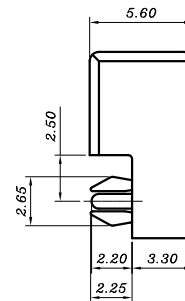
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-03205-00XX	15.50	8.00	13.00	14.25
* TSA1-03206-00XX	17.50	10.00	15.00	16.25
* TSA1-03207-00XX	19.50	12.00	17.00	18.25
* TSA1-03208-00XX	21.50	14.00	19.00	20.25
* TSA1-03209-00XX	23.50	16.00	21.00	22.25
* TSA1-03210-00XX	25.50	18.00	23.00	24.25
* TSA1-03211-00XX	27.50	20.00	25.00	26.25
* TSA1-03212-00XX	29.50	22.00	27.00	28.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-033 $\frac{XX}{a} - 0 \frac{X}{b} \frac{X}{c} \frac{X}{d}$

$a=05\sim12-5\sim12$ Pins

$b=0$ —Large Pin on The Position 1

1—Large Pin on The Position N

2—All are Large Pin

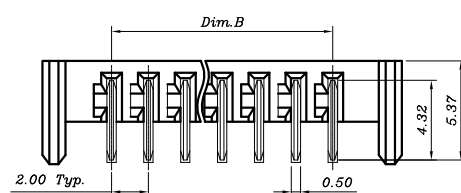
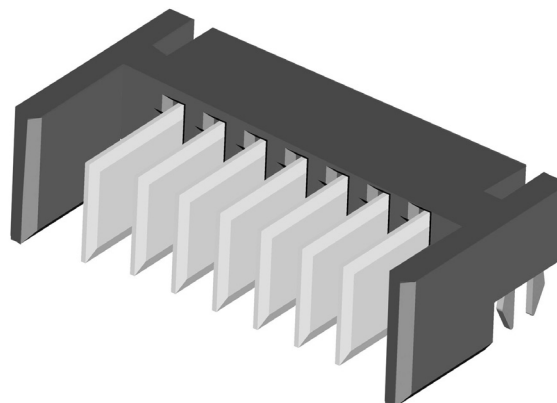
3—Large Pin on The Position 1&N

4—Large Pin on The Position N-1&N

6—Large Pin on The Position 1&2&N-1&N

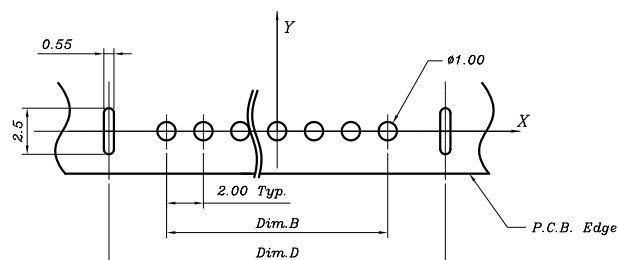
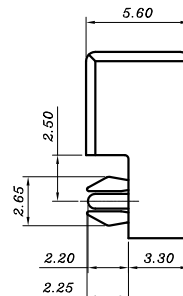
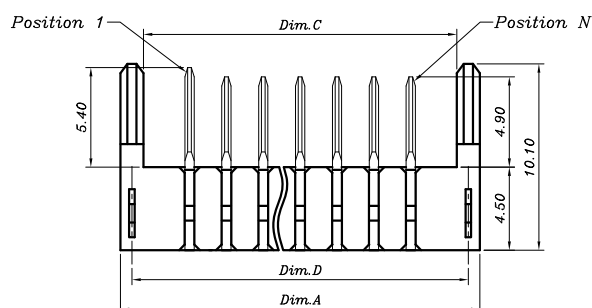
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-03305-0XXX	15.50	8.00	13.00	14.25
* TSA1-03306-0XXX	17.50	10.00	15.00	16.25
* TSA1-03307-0XXX	19.50	12.00	17.00	18.25
* TSA1-03308-0XXX	21.50	14.00	19.00	20.25
* TSA1-03309-0XXX	23.50	16.00	21.00	22.25
* TSA1-03310-0XXX	25.50	18.00	23.00	24.25
* TSA1-03311-0XXX	27.50	20.00	25.00	26.25
* TSA1-03312-0XXX	29.50	22.00	27.00	28.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-034 $\frac{XX}{a}$ - 0 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$ A

$a=05\sim12-5\sim12$ Pins

$b=0$ -All are Large Pin

1-Large Pin on The Position N

2-Large Pin on The Position 1

3-Large Pin on The Position 1&N

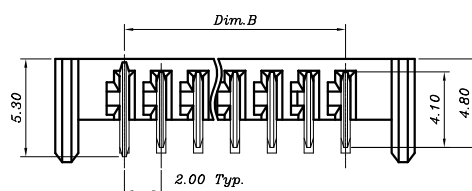
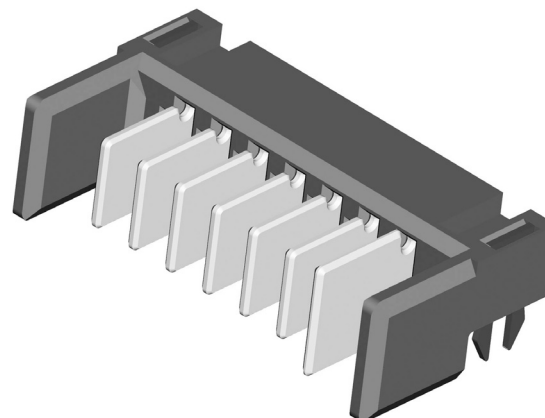
4-Large Pin on The Position 1&2&N-1&N

5-Large Pin on The Position 1&2

6-Large Pin on The Position N-1&N

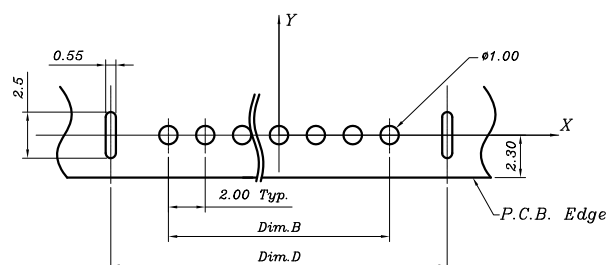
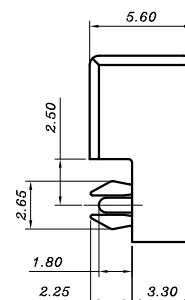
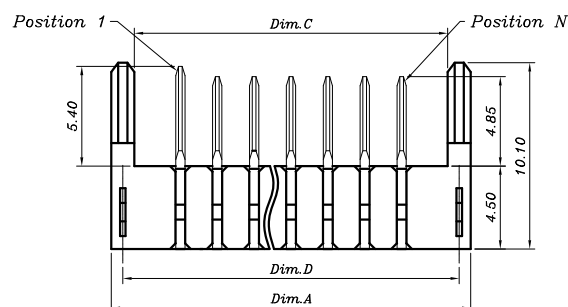
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-03405-OXXXA	15.50	8.00	13.00	14.25
* TSA1-03406-OXXXA	17.50	10.00	15.00	16.25
* TSA1-03407-OXXXA	19.50	12.00	17.00	18.25
* TSA1-03408-OXXXA	21.50	14.00	19.00	20.25
* TSA1-03409-OXXXA	23.50	16.00	21.00	22.25
* TSA1-03410-OXXXA	25.50	18.00	23.00	24.25
* TSA1-03411-OXXXA	27.50	20.00	25.00	26.25
* TSA1-03412-OXXXA	29.50	22.00	27.00	28.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-037 $\frac{XX}{a} - \frac{X}{b} \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=05\sim10-5\sim10$ Pins

$b=0$ —Dim.G=11.1, Dim.H=7.5, Dim.I=6.6

1—Dim.G=12.3, Dim.H=11.4, Dim.I=7.9

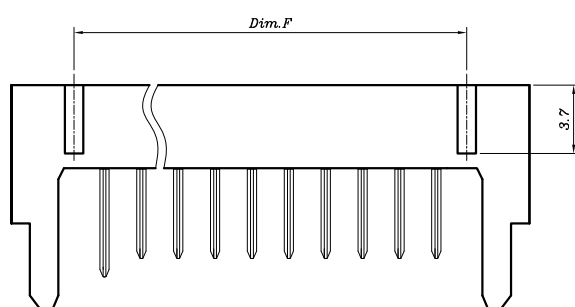
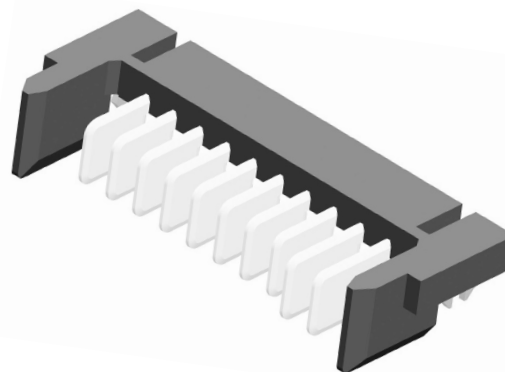
2—Dim.G=11.1, Dim.H=5.5, Dim.I=6.6

$c=1$ —Large Pin on The Position 1(Dim.J=4.1)

6—Large Pin on The Position 1&2(Dim.J=5.2)

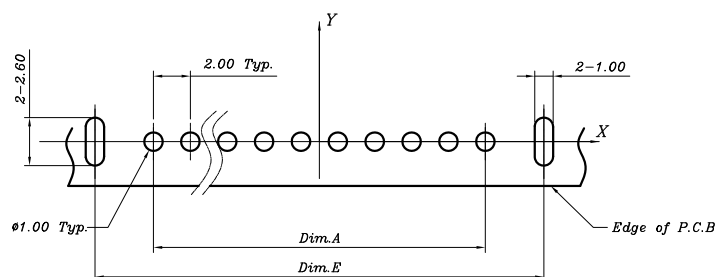
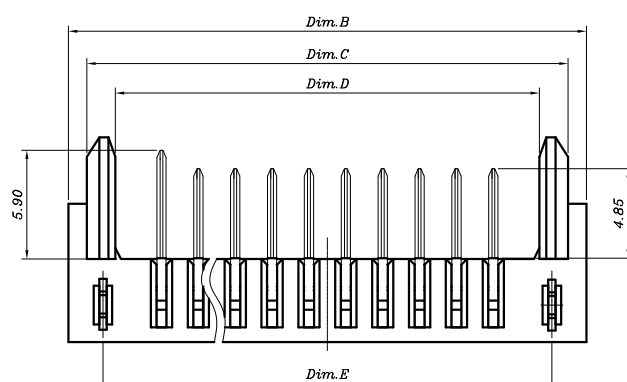
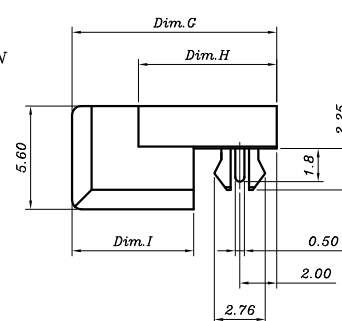
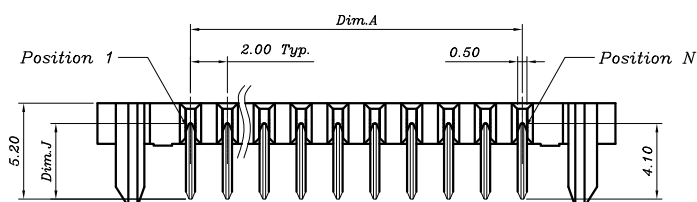
d =Packing Option

e =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
TSA1-03705-XXXX	8.0	18.1	16.1	15.0	14.35	11.30
TSA1-03706-XXXX	10.0	20.1	18.1	16.0	16.35	13.30
* TSA1-03707-XXXX	12.0	22.1	20.1	17.0	18.35	15.30
TSA1-03708-XXXX	14.0	24.1	22.1	19.0	20.35	17.30
TSA1-03709-XXXX	16.0	26.1	24.1	21.0	22.35	19.30
* TSA1-03710-XXXX	18.0	28.1	26.1	23.0	24.35	21.30



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

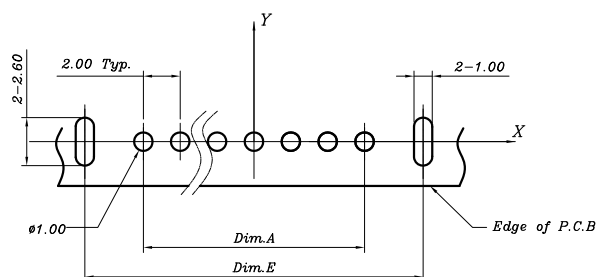
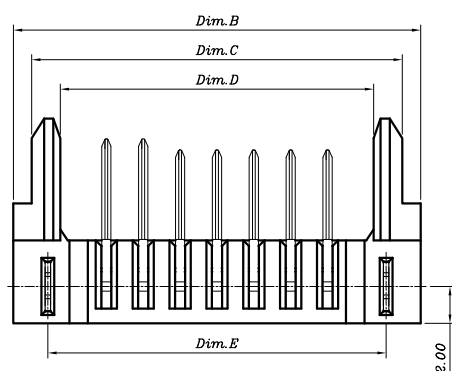
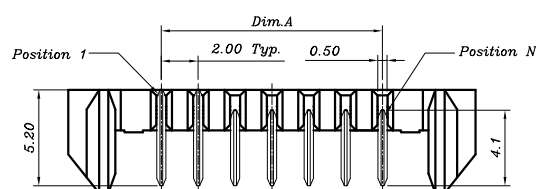
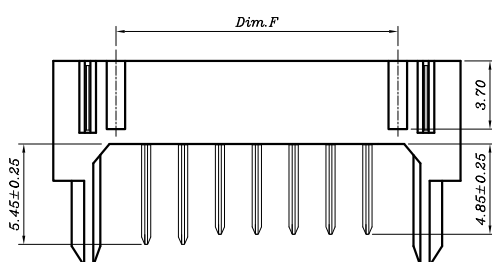
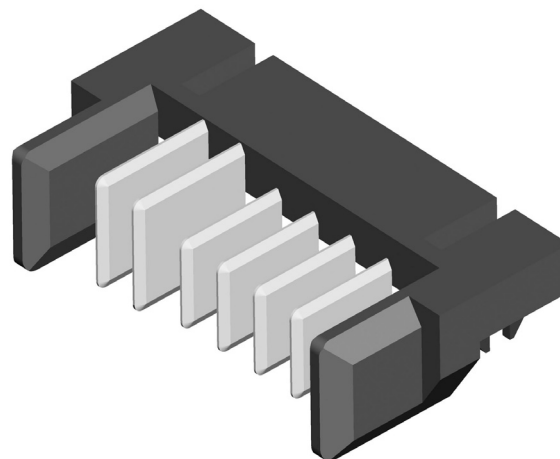
TSA1-037 $\frac{XX}{a}$ - 3 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$

a =05~10-5~10 Pins

b =6-Large Pin on The Position 1&2

c =Packing Option

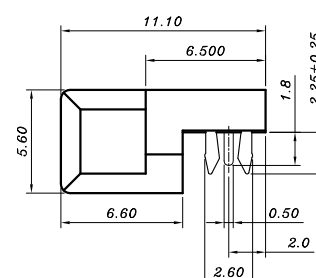
d =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E	Dim.F
TSA1-03705-3XXX	8.0	18.1	16.1	15.0	14.35	11.30
TSA1-03706-3XXX	10.0	20.1	18.1	16.0	16.35	13.30
* TSA1-03707-3XXX	12.0	22.1	20.1	17.0	18.35	15.30
TSA1-03708-3XXX	14.0	24.1	22.1	19.0	20.35	17.30
TSA1-03709-3XXX	16.0	26.1	24.1	21.0	22.35	19.30
* TSA1-03710-3XXX	18.0	28.1	26.1	23.0	24.35	21.30



2.0mm BATTERY CONNECTOR, MALE

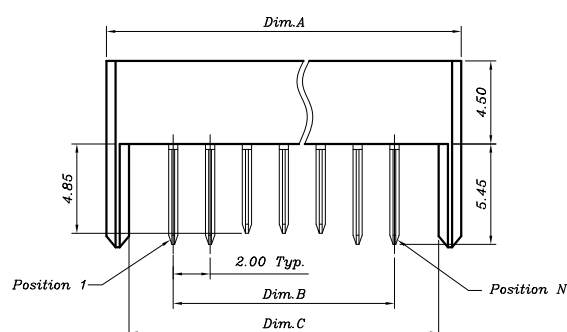
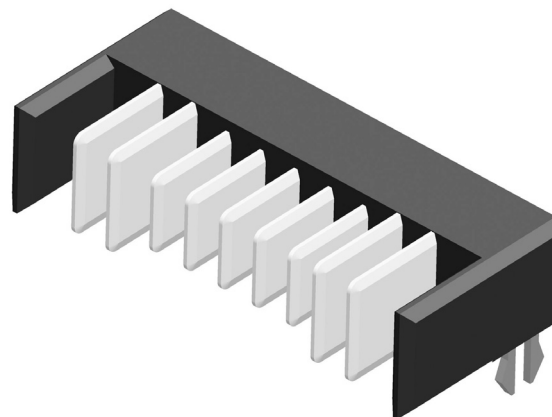
ORDER INFORMATION

TSA1-039 $\frac{XX}{a}$ - 02 $\frac{X}{b}$ $\frac{X}{c}$ A

a=05~09-5~9Pins

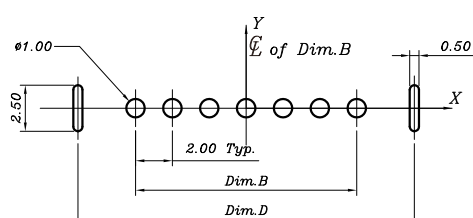
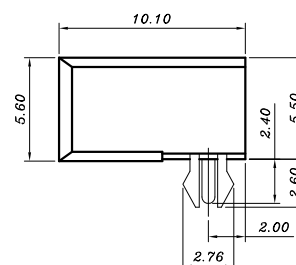
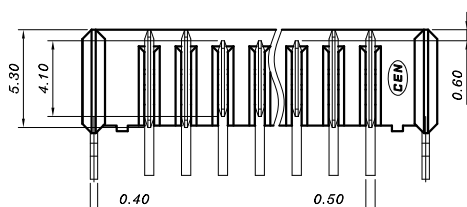
b=Packing Option

c=Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-03905-02XXA	15.50	8.00	13.00	14.25
TSA1-03906-02XXA	17.50	10.00	15.00	16.25
TSA1-03907-02XXA	19.50	12.00	17.00	18.25
TSA1-03908-02XXA	21.50	14.00	19.00	20.25
* TSA1-03909-02XXA	23.50	16.00	21.00	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-03A $\frac{XX}{a}$ - 0 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$ A

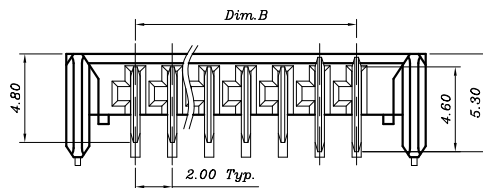
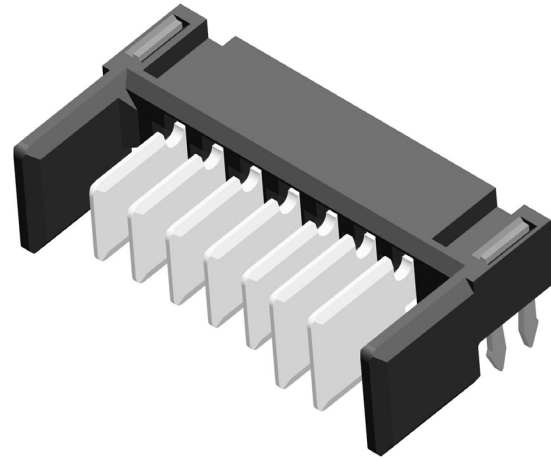
a =05~12-5~12Pins

b =4-Large Pin on The Position N-1&N

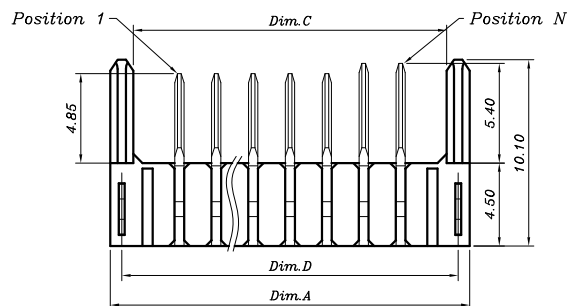
5-Large Pin on The Position 1&2

c =Packing Option

d =Plating Option

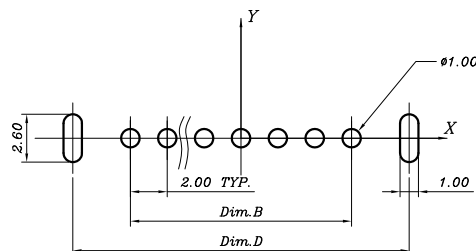
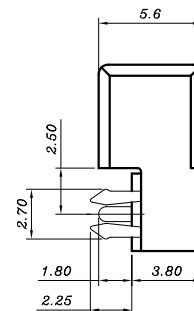


Large Pins on the Position N-1&N
TSA1-03AXX-04XXA

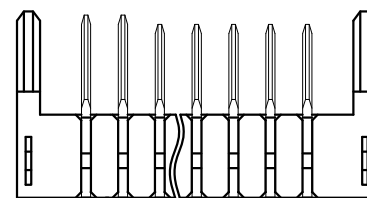


Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-03A05-0XXA	15.50	8.00	13.00	14.25
* TSA1-03A06-0XXA	17.50	10.00	15.00	16.25
* TSA1-03A07-0XXA	19.50	12.00	17.00	18.25
* TSA1-03A08-0XXA	21.50	14.00	19.00	20.25
* TSA1-03A09-0XXA	23.50	16.00	21.00	22.25
* TSA1-03A10-0XXA	25.50	18.00	23.00	24.25
* TSA1-03A11-0XXA	27.50	20.00	25.00	26.25
* TSA1-03A12-0XXA	29.50	22.00	27.00	28.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm



Large Pin on the Position 1&2
TSA1-03AXX-05XXA

2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

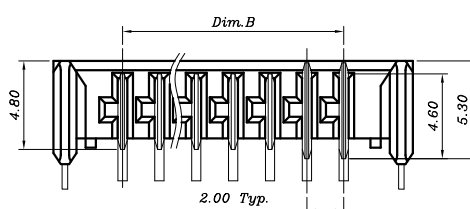
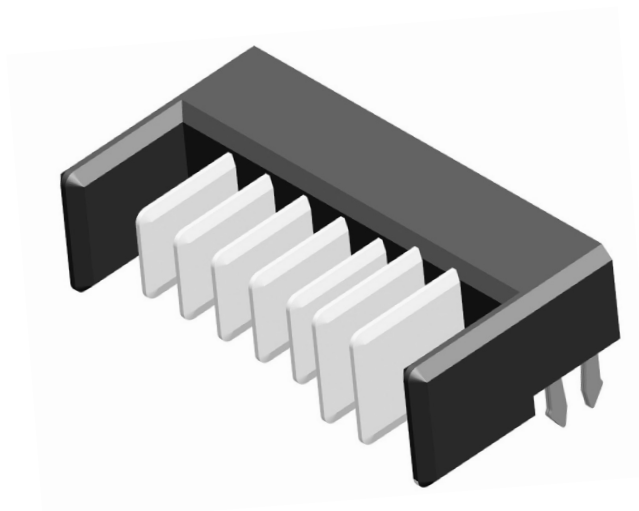
TSA1-03B $\frac{XX}{a}$ - $\frac{X}{b}$ 0 $\frac{X}{c}$ $\frac{X}{d}$ A

a =05~09-5~9 Pins

b =4-Large Pin on The Position N-1&N

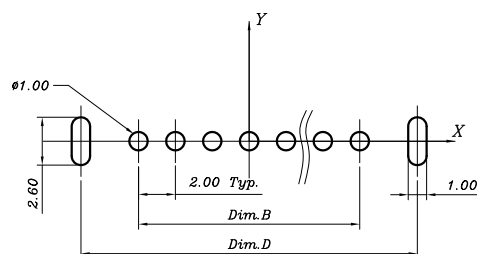
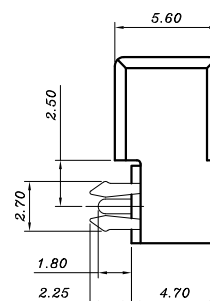
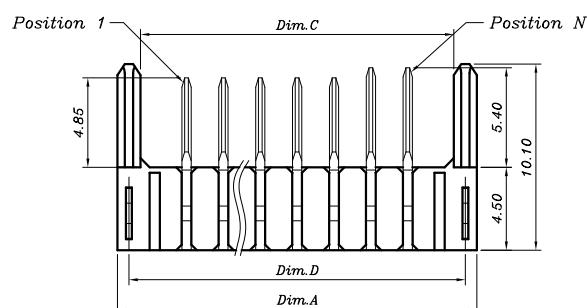
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-03B05-X0XXA	15.50	8.00	13.00	14.25
TSA1-03B06-X0XXA	17.50	10.00	15.00	16.25
* TSA1-03B07-X0XXA	19.50	12.00	17.00	18.25
TSA1-03B08-X0XXA	21.50	14.00	19.00	20.25
TSA1-03B09-X0XXA	23.50	16.00	21.00	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

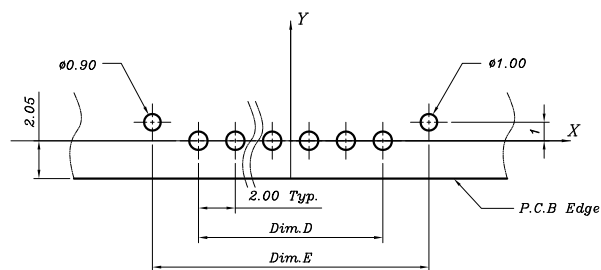
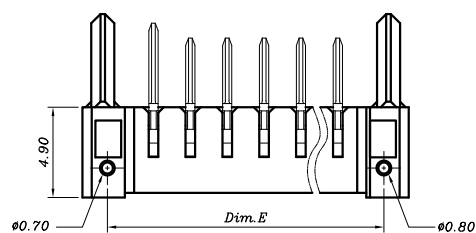
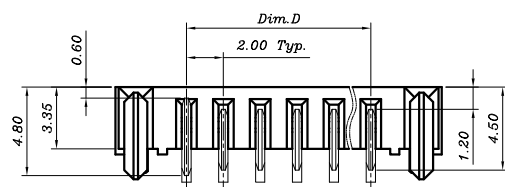
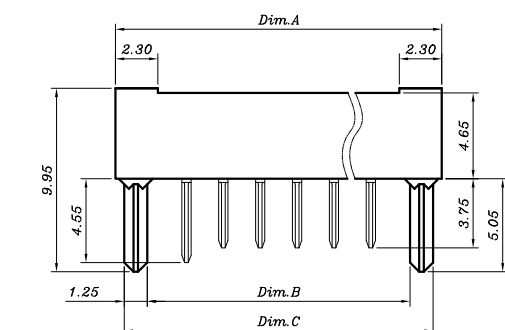
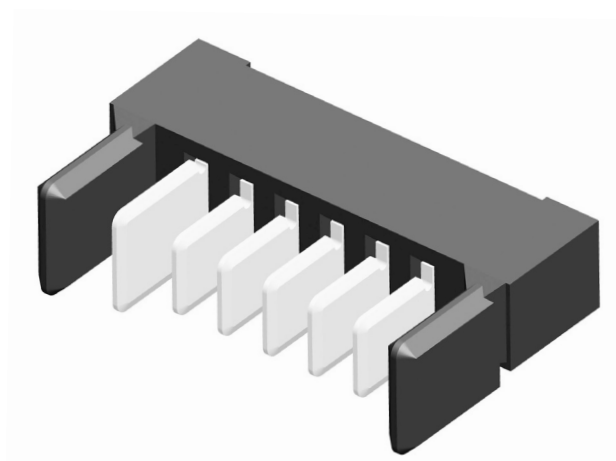
ORDER INFORMATION

TSA1-03D $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~09-5~9Pins

b =Packing Option

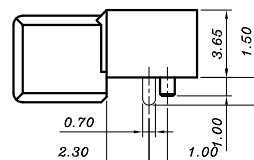
c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
TSA1-03D05-00XXA	15.70	12.25	14.75	8.00	13.00
* TSA1-03D06-00XXA	17.70	14.25	16.75	10.00	15.00
TSA1-03D07-00XXA	19.70	16.25	18.75	12.00	17.00
TSA1-03D08-00XXA	21.70	18.25	20.75	14.00	19.00
TSA1-03D09-00XXA	23.70	20.25	22.75	16.00	21.00



2.0mm BATTERY CONNECTOR, MALE

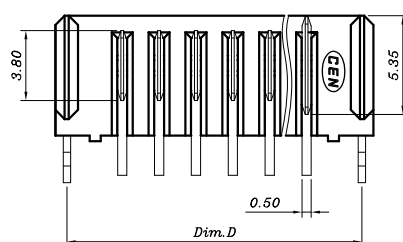
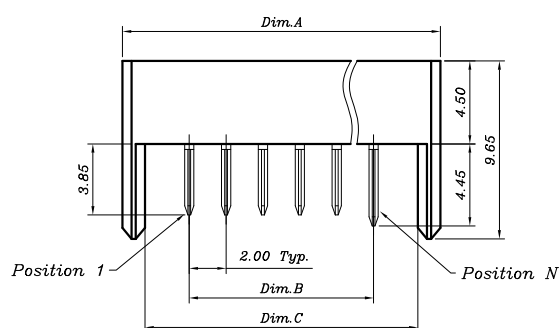
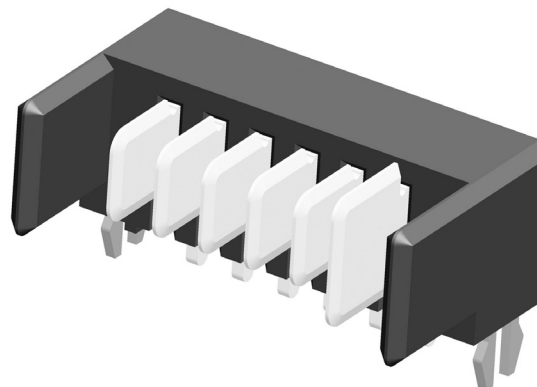
ORDER INFORMATION

TSA1-03E $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

$a=05\sim09-5\sim9$ Pins

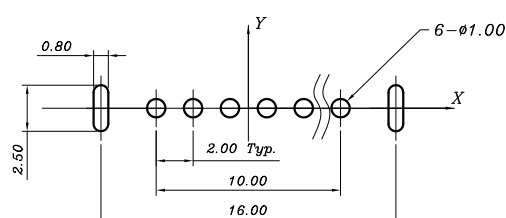
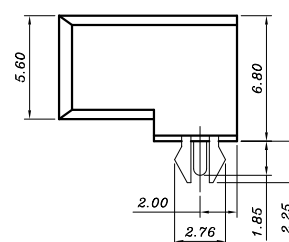
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-03E05-00XXA	15.50	8.00	12.80	14.00
* TSA1-03E06-00XXA	17.50	10.00	14.80	16.00
TSA1-03E07-00XXA	19.50	12.00	16.80	18.00
TSA1-03E08-00XXA	21.50	14.00	18.80	20.00
TSA1-03E09-00XXA	23.50	16.00	20.80	22.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

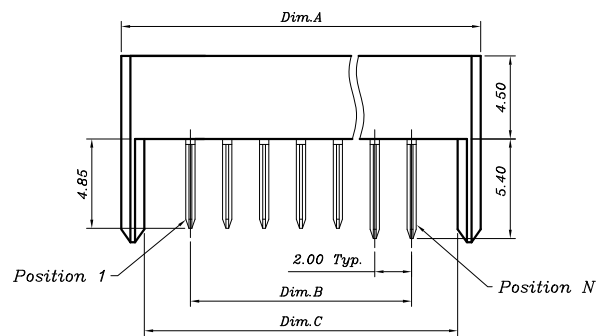
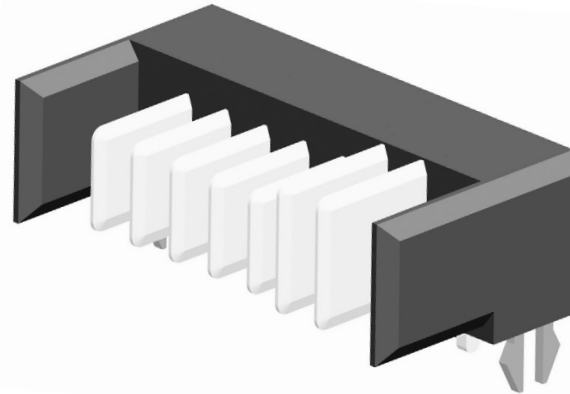
ORDER INFORMATION

TSA1-03F $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~09-5~9 Pins

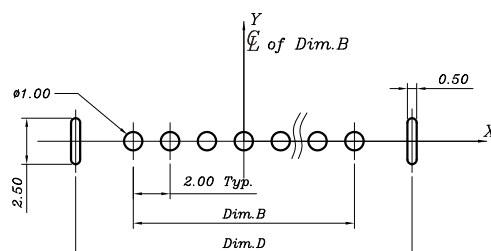
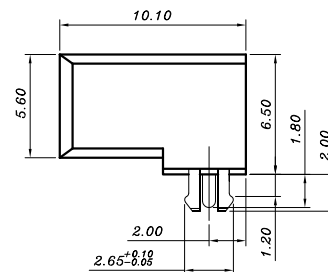
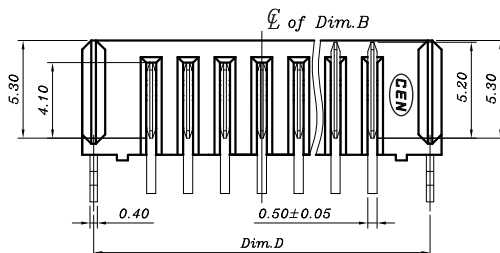
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-03F05-00XXA	15.50	8.00	13.00	14.25
TSA1-03F06-00XXA	17.50	10.00	15.00	16.25
* TSA1-03F07-00XXA	19.50	12.00	17.00	18.25
TSA1-03F08-00XXA	21.50	14.00	19.00	20.25
TSA1-03F09-00XXA	23.50	16.00	21.00	22.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

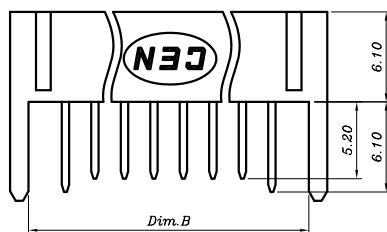
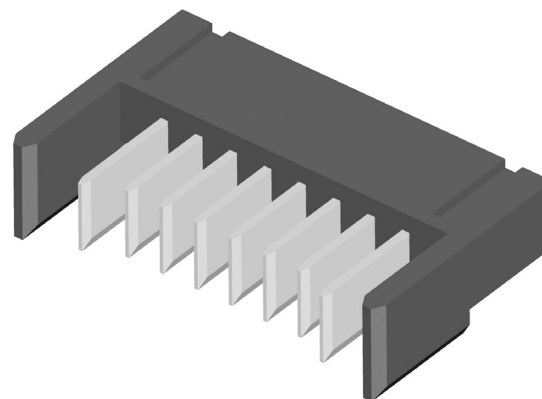
ORDER INFORMATION

TSA1-091 $\frac{XX}{a}$ - 00 $\frac{X}{b} \frac{X}{c}$

a =06~08-6~8Pins

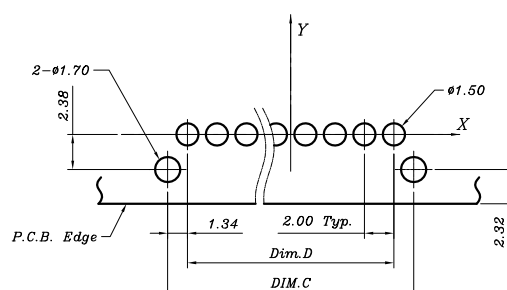
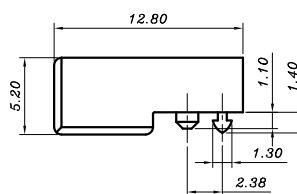
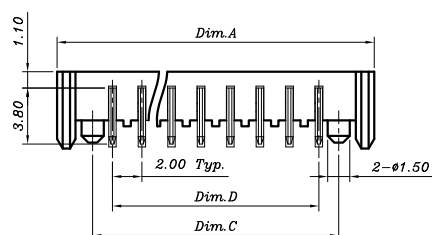
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-09106-00XX	17.50	15.00	12.68	10.00
* TSA1-09107-00XX	19.50	17.00	14.68	12.00
* TSA1-09108-00XX	21.50	19.00	16.68	14.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

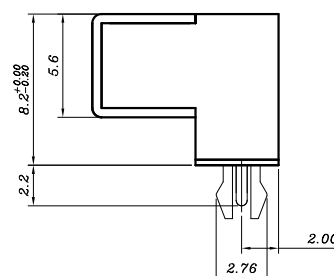
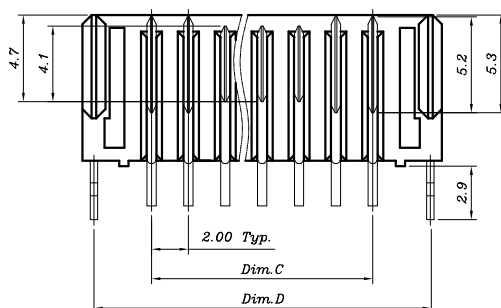
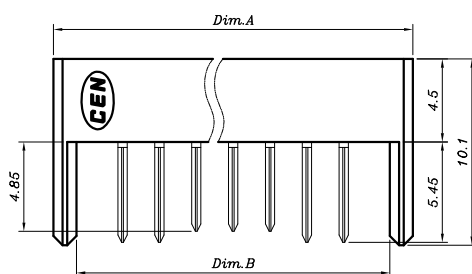
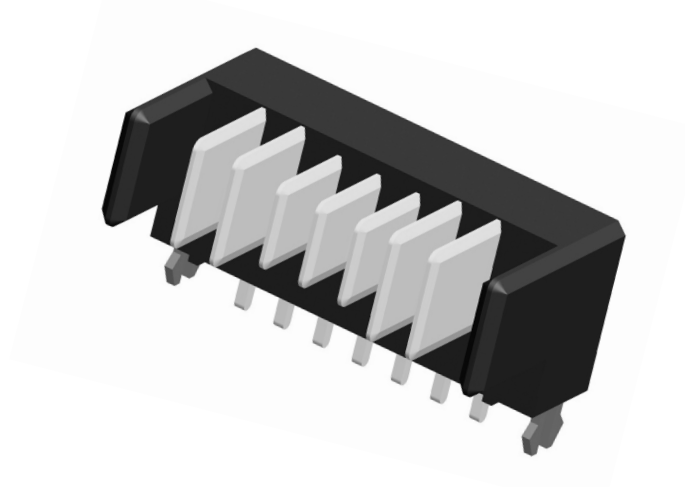
ORDER INFORMATION

TSA1-106 $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a=05~10-5~10Pins

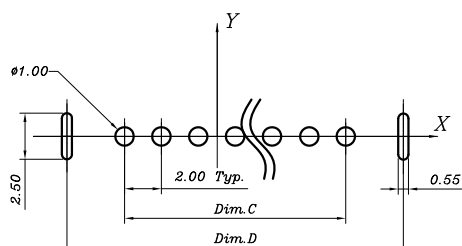
b=Packing Option

c=Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-10605-00XXA	15.50	13.00	8.00	14.25
TSA1-10606-00XXA	17.50	15.00	10.00	16.25
* TSA1-10607-00XXA	19.50	17.00	12.00	18.25
TSA1-10608-00XXA	21.50	19.00	14.00	20.25
TSA1-10609-00XXA	23.50	21.00	16.00	22.25
TSA1-10610-00XXA	25.50	23.00	18.00	24.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

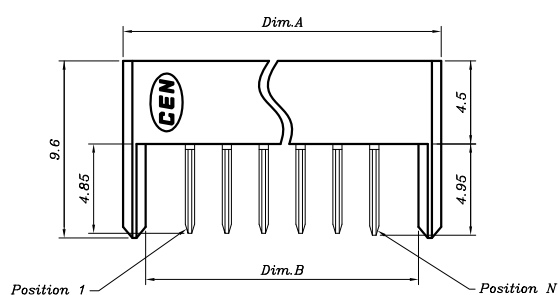
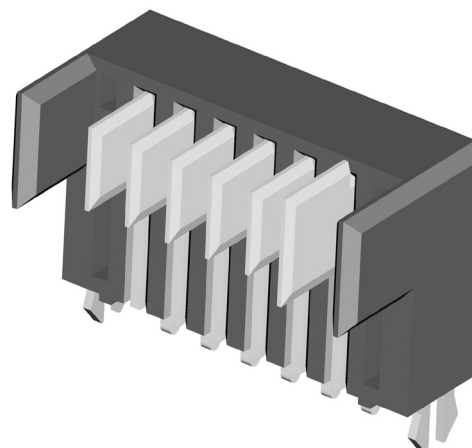
ORDER INFORMATION

TSA1-111 $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~10-5~10Pins

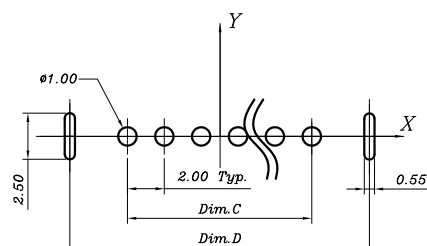
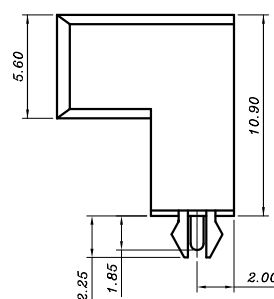
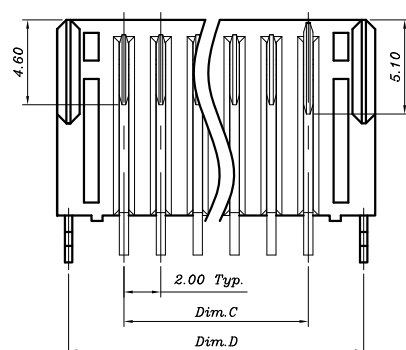
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSA1-11105-00XXA	15.25	12.80	8.00	14.00
TSA1-11106-00XXA	17.25	14.80	10.00	16.00
* TSA1-11107-00XXA	19.25	16.80	12.00	18.00
TSA1-11108-00XXA	21.25	18.80	14.00	20.00
TSA1-11109-00XXA	23.25	20.80	16.00	22.00
TSA1-11110-00XXA	25.25	22.80	18.00	24.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

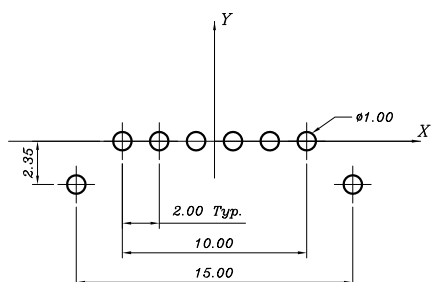
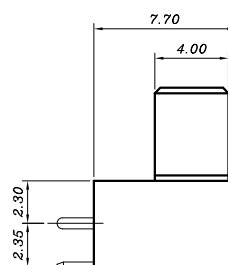
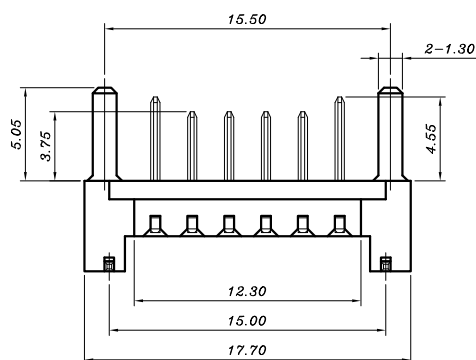
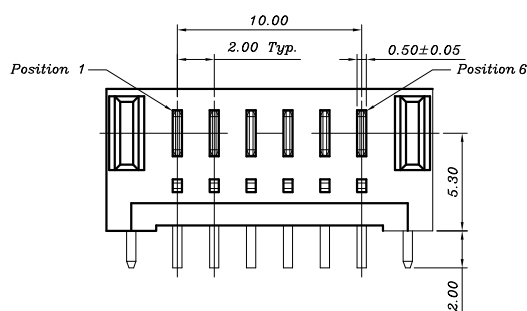
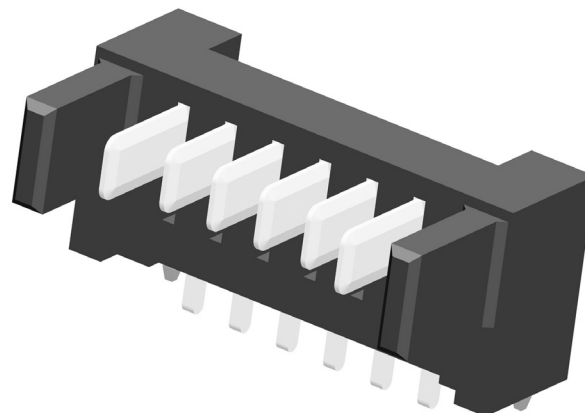
2.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSA1-14106 - 03 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

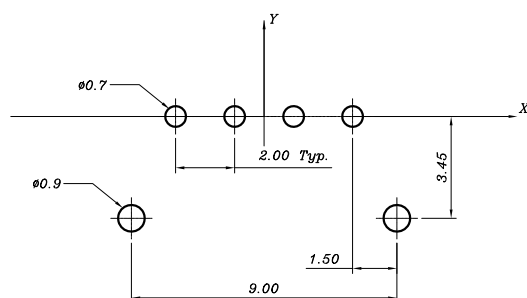
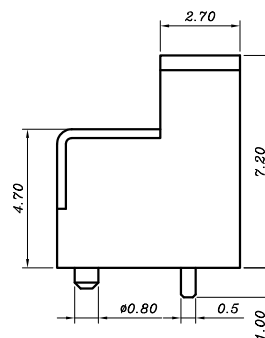
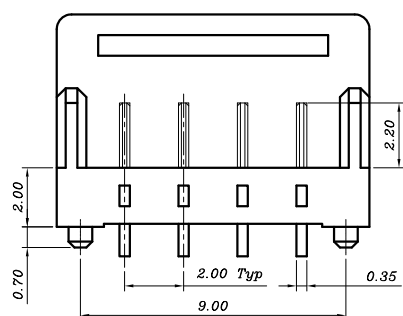
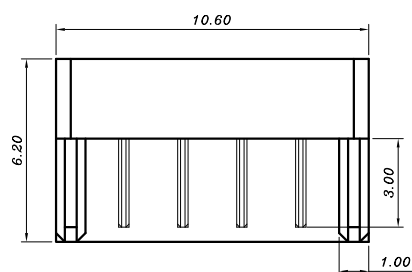
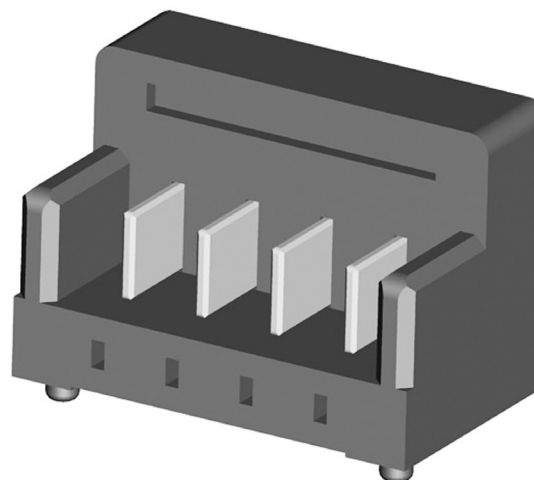
ORDER INFORMATION

TSA1-150 $\frac{04}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =04-4Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

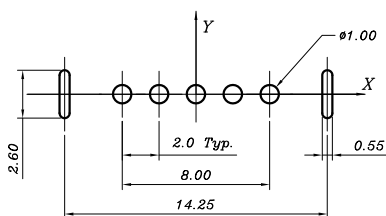
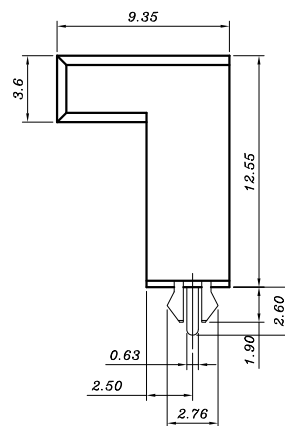
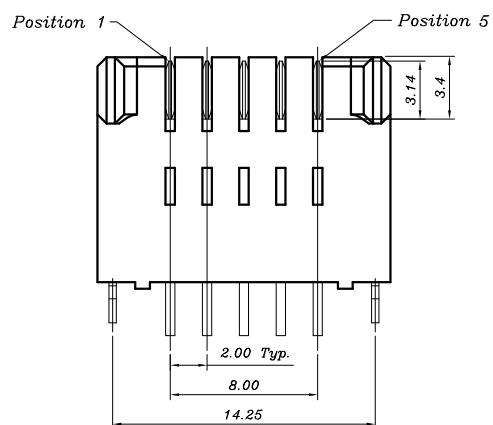
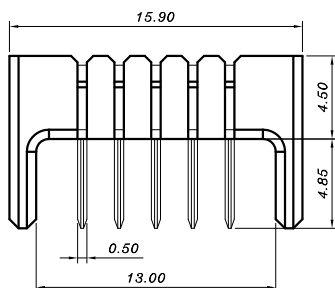
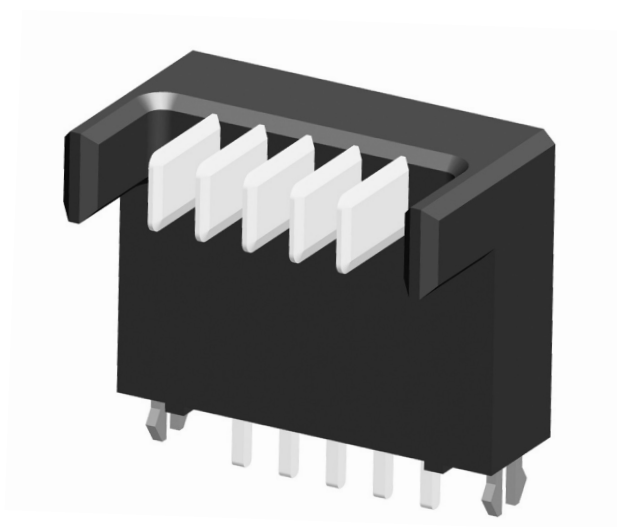
ORDER INFORMATION

TSA1-160 $\frac{5}{a}$ 0 - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =5-5Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

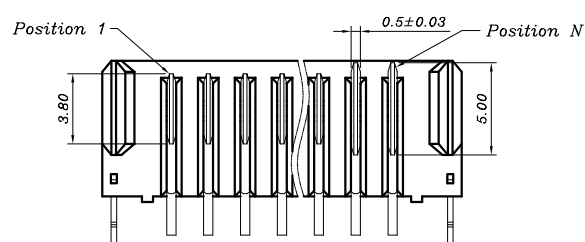
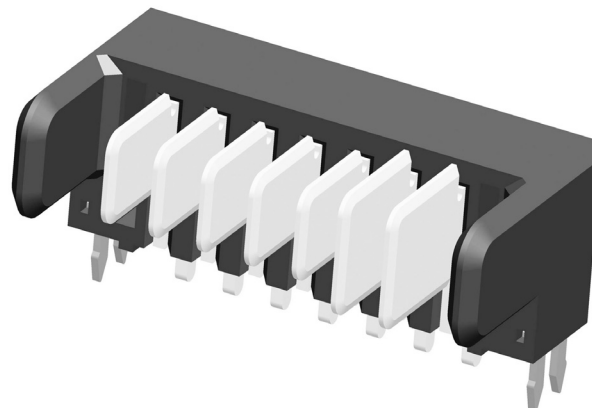
ORDER INFORMATION

TSA1-181 $\frac{X}{a}$ 0 - 50 $\frac{X}{b}$ $\frac{X}{c}$

$a=5\sim C-5\sim 12$ Pins

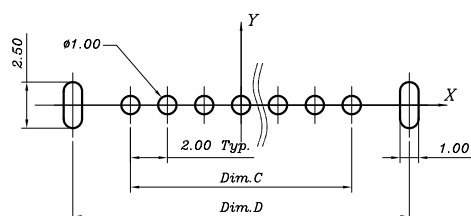
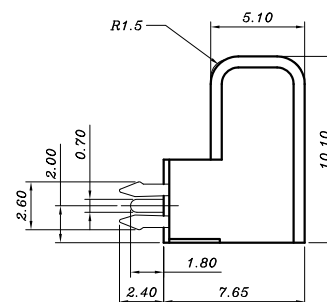
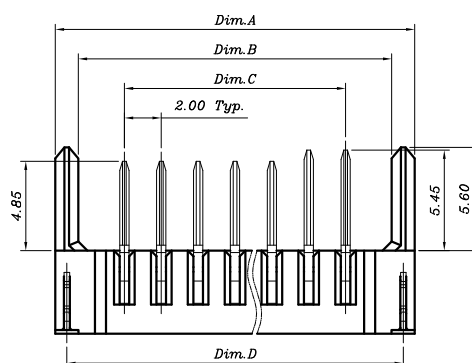
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-18150-50XX	15.50	13.00	8.00	14.25
TSA1-18160-50XX	17.50	15.00	10.00	16.25
* TSA1-18170-50XX	19.50	17.00	12.00	18.25
TSA1-18180-50XX	21.50	19.00	14.00	20.25
TSA1-18190-50XX	23.50	21.00	16.00	22.25
TSA1-181A0-50XX	25.50	23.00	18.00	24.25
TSA1-181B0-50XX	27.50	25.00	20.00	26.25
TSA1-181C0-50XX	29.50	27.00	22.00	28.25



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

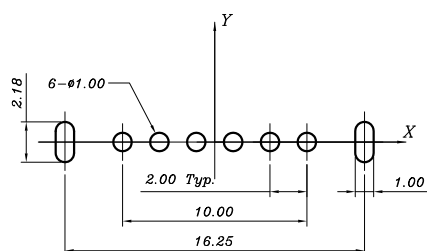
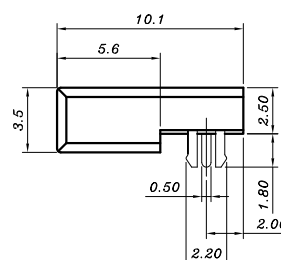
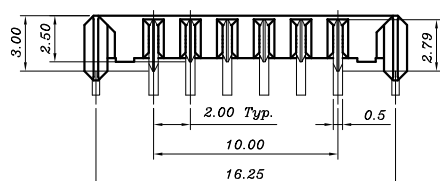
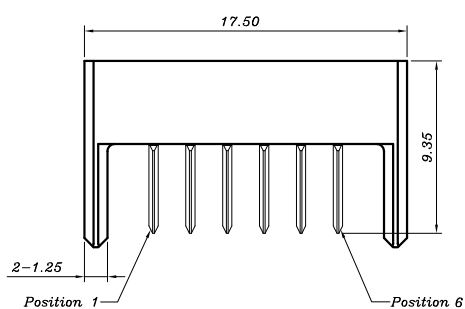
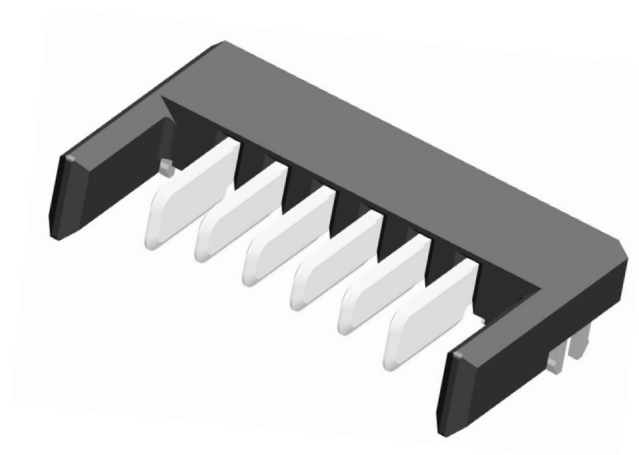
ORDER INFORMATION

TSA1-191 $\frac{6}{a}$ 0 - 30 $\frac{X}{b}$ $\frac{X}{c}$

a =6-6Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm BATTERY CONNECTOR, MALE

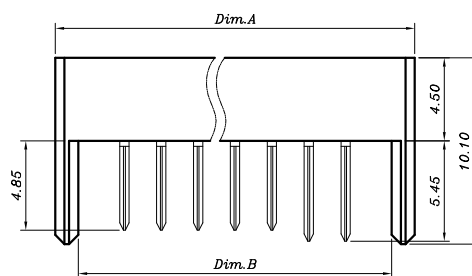
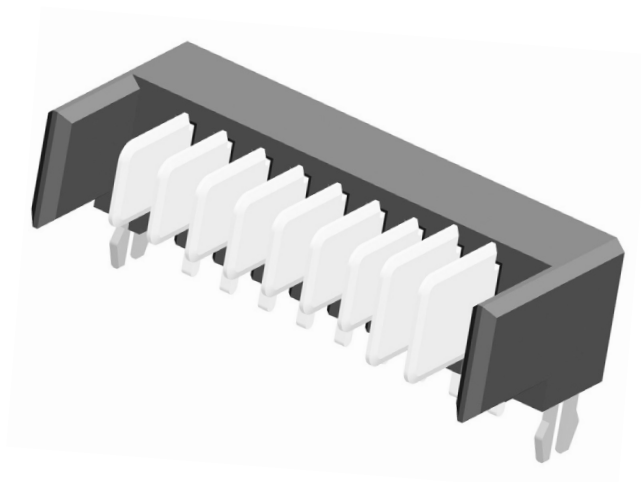
ORDER INFORMATION

TSA1-204 $\frac{XX}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$ A

a =05~09-5~9Pins

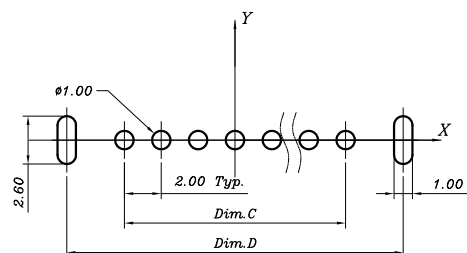
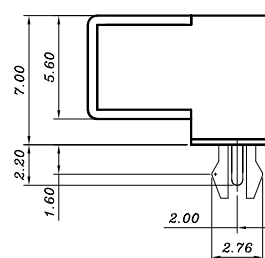
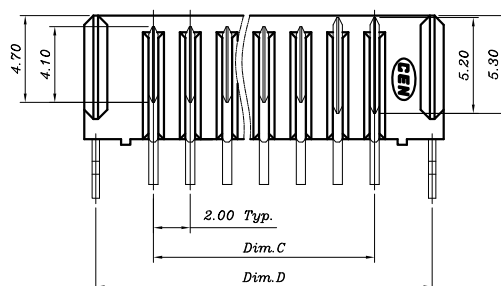
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSA1-20405-00XXA	15.5	13.00	8.00	14.25
TSA1-20406-00XXA	17.5	15.00	10.00	16.25
TSA1-20407-00XXA	19.5	17.00	12.00	18.25
TSA1-20408-00XXA	21.5	19.00	14.00	20.25
* TSA1-20409-00XXA	23.5	21.00	16.00	22.25



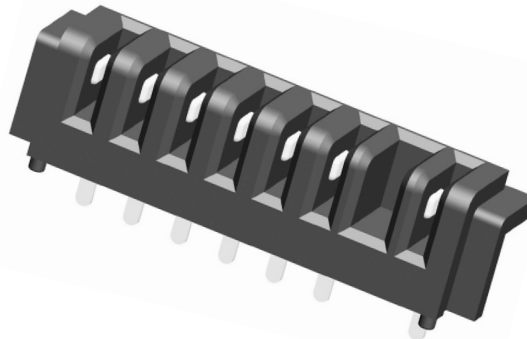
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

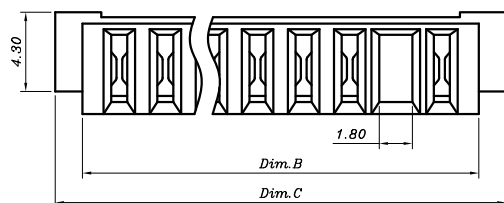
TSB0-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

α =0-Without Foolproof Hole
 1-Foolproof Hole on The Right
 2-Foolproof Hole on The Left
 b =3~9-3~9Pins , A-10Pins
 c =1-Dim.E=3.0
 5-Dim.E=2.3
 7-Dim.E=1.5
 d =Packing Option
 e =Plating Option



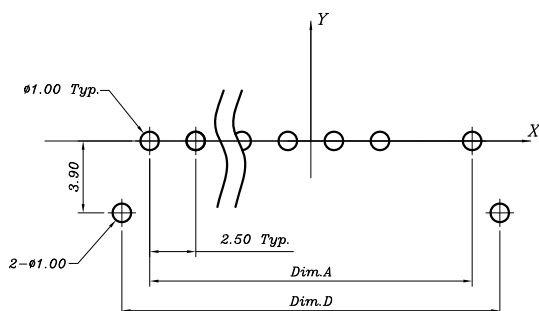
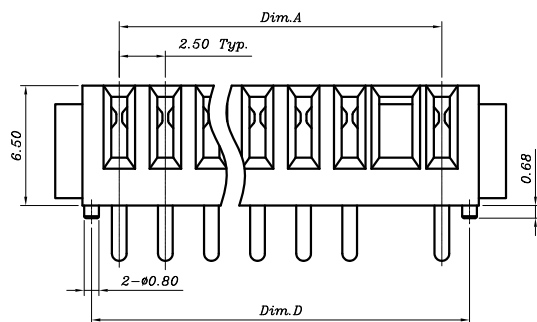
Foolproof Hole on The Right

TSB0-011XX-00XX

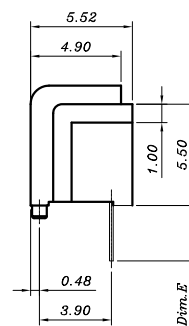


Dimension Information :

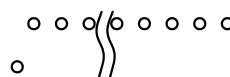
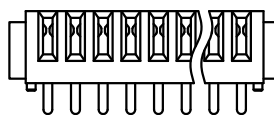
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0104X-00XX	7.50	11.50	14.45	10.50
* TSB0-0105X-00XX	10.00	14.00	16.95	13.00
* TSB0-0106X-00XX	12.50	16.50	19.45	15.50
* TSB0-0107X-00XX	15.00	19.00	21.95	18.00
* TSB0-0108X-00XX	17.50	21.50	24.45	20.50
* TSB0-0109X-00XX	20.00	24.00	26.95	23.00
* TSB0-010AX-00XX	22.50	26.50	29.45	25.50
* TSB0-0113X-00XX	7.50	11.50	14.45	10.50
* TSB0-0123X-00XX	7.50	11.50	14.45	10.50
* TSB0-0114X-00XX	10.00	14.00	16.95	13.00
* TSB0-0124X-00XX	10.00	14.00	16.95	13.00
* TSB0-0115X-00XX	12.50	16.50	19.45	15.50
* TSB0-0125X-00XX	12.50	16.50	19.45	15.50
* TSB0-0116X-00XX	15.00	19.00	21.95	18.00
* TSB0-0126X-00XX	15.00	19.00	21.95	18.00
* TSB0-0117X-00XX	17.50	21.50	24.45	20.50
* TSB0-0127X-00XX	17.50	21.50	24.45	20.50
* TSB0-0118X-00XX	20.00	24.00	26.95	23.00
* TSB0-0128X-00XX	20.00	24.00	26.95	23.00
* TSB0-0119X-00XX	22.50	26.50	29.45	25.50
* TSB0-0129X-00XX	22.50	26.50	29.45	25.50



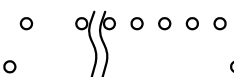
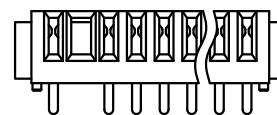
Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm



Without Foolproof Hole
 TSB0-010XX-00XX



Foolproof Hole on The Left
 TSB0-012XX-00XX

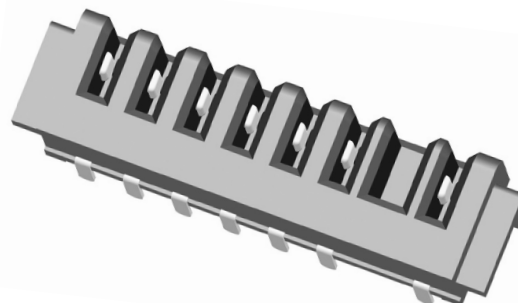


2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

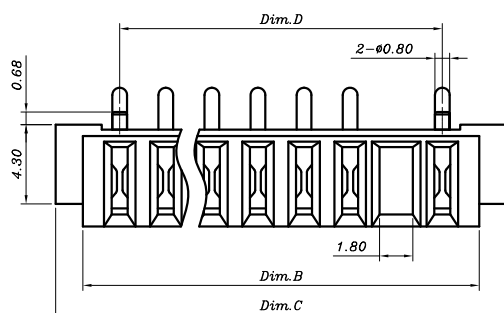
TSB0-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

a =0-Without Foolproof Hole
 1-Foolproof Hole on The Right
 2-Foolproof Hole on The Left
 b =3~9-3~9Pins , A-10Pins
 c =2-Dim.E=2.0
 9-Dim.E=2.5
 d =Packing Option
 e =Plating Option



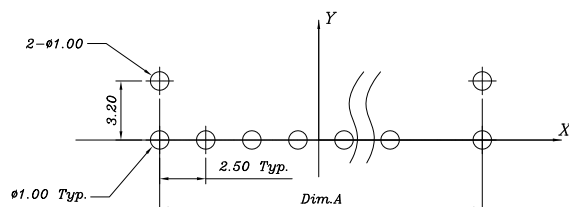
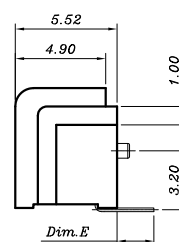
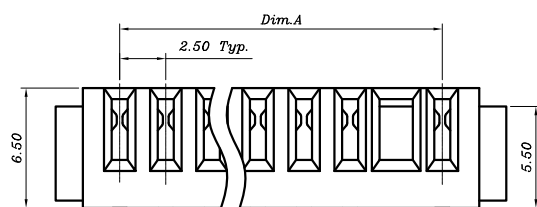
Foolproof Hole on The Right

TSB0-011XX-00XX



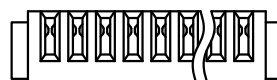
Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0104X-00XX	7.50	11.50	14.45	7.50
* TSB0-0105X-00XX	10.00	14.00	16.95	10.00
* TSB0-0106X-00XX	12.50	16.50	19.45	12.50
* TSB0-0107X-00XX	15.00	19.00	21.95	15.00
* TSB0-0108X-00XX	17.50	21.50	24.45	17.50
* TSB0-0109X-00XX	20.00	24.00	26.95	20.00
* TSB0-010AX-00XX	22.50	26.50	29.45	22.50
* TSB0-0113X-00XX	7.50	11.50	14.45	7.50
* TSB0-0123X-00XX	10.00	14.00	16.95	10.00
* TSB0-0114X-00XX	12.50	16.50	19.45	12.50
* TSB0-0125X-00XX	15.00	19.00	21.95	15.00
* TSB0-0126X-00XX	17.50	21.50	24.45	17.50
* TSB0-0127X-00XX	20.00	24.00	26.95	20.00
* TSB0-0128X-00XX	22.50	26.50	29.45	22.50
* TSB0-0129X-00XX	25.00	29.00	31.95	25.00

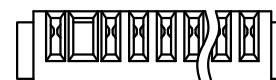


Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

Without Foolproof Hole
 TSB0-010XX-00XX



Foolproof Hole on The Left
 TSB0-012XX-00XX

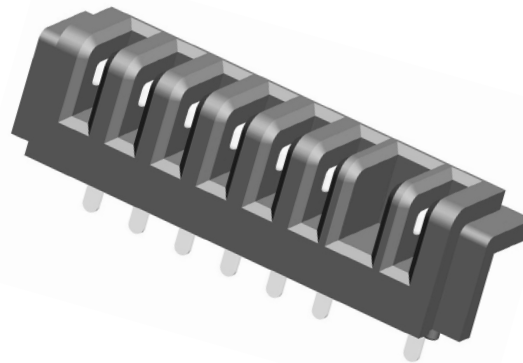


2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

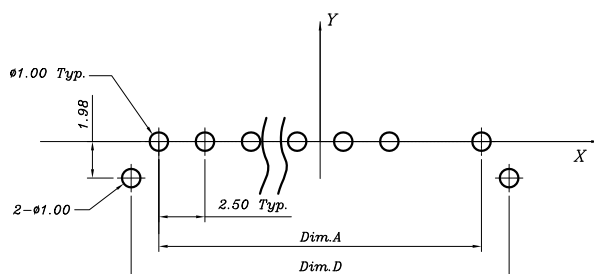
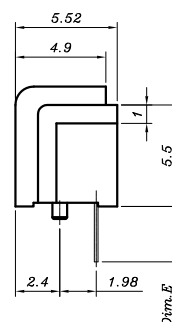
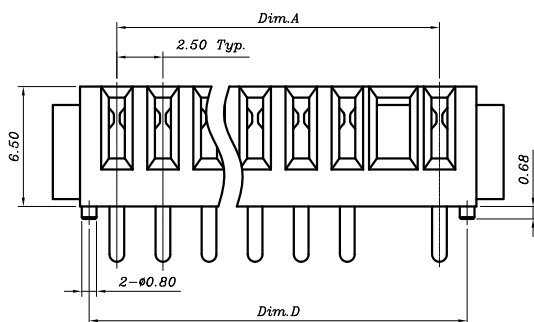
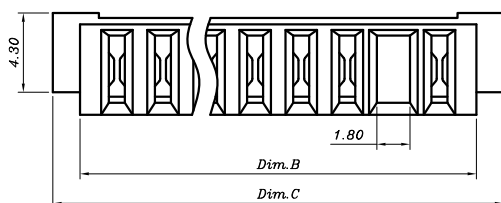
$a=0$ —Without Foolproof Hole
 1—Foolproof Hole on The Right
 2—Foolproof Hole on The Left
 $b=3\sim 9$ —3~9Pins, A—10Pins
 $c=3$ —Dim.E=3.0
 8—Dim.E=1.5
 E—Dim.E=2.3
 d —Packing Option
 e —Plating Option



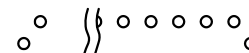
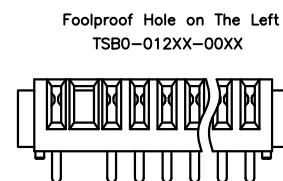
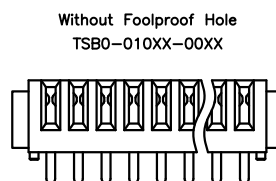
Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0104X-00XX	7.50	11.50	14.45	10.50
* TSB0-0105X-00XX	10.00	14.00	16.95	13.00
* TSB0-0106X-00XX	12.50	16.50	19.45	15.50
* TSB0-0107X-00XX	15.00	19.00	21.95	18.00
* TSB0-0108X-00XX	17.50	21.50	24.45	20.50
* TSB0-0109X-00XX	20.00	24.00	26.95	23.00
* TSB0-010AX-00XX	22.50	26.50	29.45	25.50
* TSB0-0113X-00XX	7.50	11.50	14.45	10.50
* TSB0-0123X-00XX	10.00	14.00	16.95	13.00
* TSB0-0114X-00XX	12.50	16.50	19.45	15.50
* TSB0-0124X-00XX	15.00	19.00	21.95	18.00
* TSB0-0115X-00XX	17.50	21.50	24.45	20.50
* TSB0-0125X-00XX	20.00	24.00	26.95	23.00
* TSB0-0116X-00XX	22.50	26.50	29.45	25.50
* TSB0-0117X-00XX	7.50	11.50	14.45	10.50
* TSB0-0127X-00XX	10.00	14.00	16.95	13.00
* TSB0-0118X-00XX	12.50	16.50	19.45	15.50
* TSB0-0128X-00XX	15.00	19.00	21.95	18.00
* TSB0-0119X-00XX	17.50	21.50	24.45	20.50
* TSB0-0129X-00XX	20.00	24.00	26.95	23.00

Foolproof Hole on The Right
 TSB0-011XX-00XX



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm



2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-01 $\frac{X}{a} \frac{X}{b} 4 - 00 \frac{X}{c} \frac{X}{d}$

$a=0$ —Without Foolproof Hole

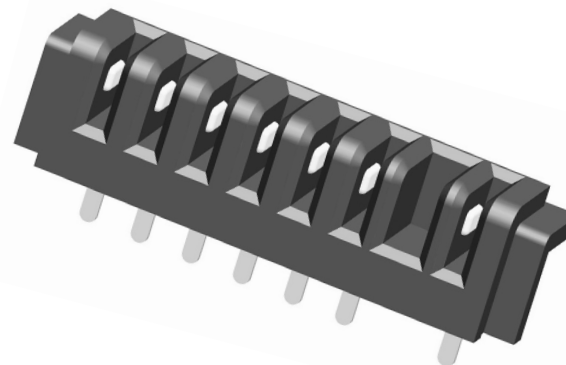
1—Foolproof Hole on The Right

2—Foolproof Hole on The Left

$b=3\sim 9$ —3~9Pins, A—10Pins

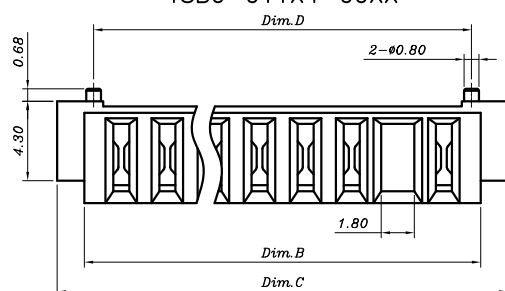
c —Packing Option

d —Plating Option



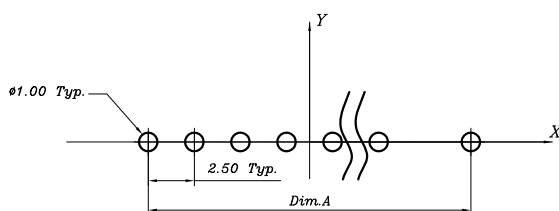
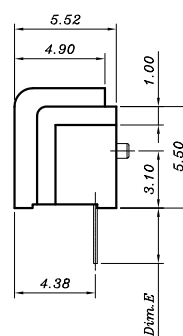
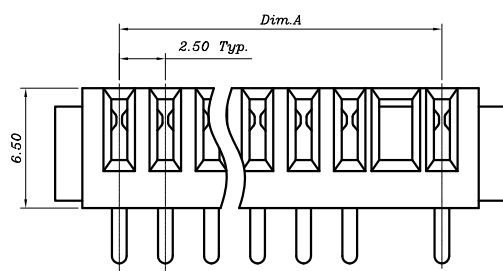
Foolproof Hole on The Right

TSB0-011X4-00XX



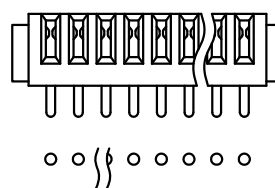
Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-01044-00XX	7.50	11.50	14.45	10.50
* TSB0-01054-00XX	10.00	14.00	16.95	13.00
* TSB0-01064-00XX	12.50	16.50	19.45	15.50
* TSB0-01074-00XX	15.00	19.00	21.95	18.00
* TSB0-01084-00XX	17.50	21.50	24.45	20.50
* TSB0-01094-00XX	20.00	24.00	26.95	23.00
* TSB0-010A4-00XX	22.50	26.50	29.45	25.50
* TSB0-01134-00XX	7.50	11.50	14.45	10.50
* TSB0-01234-00XX	10.00	14.00	16.95	13.00
* TSB0-01144-00XX	12.50	16.50	19.45	15.50
* TSB0-01254-00XX	15.00	19.00	21.95	18.00
* TSB0-01164-00XX	17.50	21.50	24.45	20.50
* TSB0-01274-00XX	20.00	24.00	26.95	23.00
* TSB0-01184-00XX	22.50	26.50	29.45	25.50
* TSB0-01294-00XX				

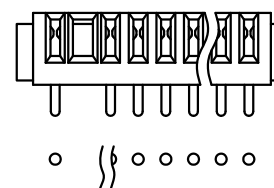


Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Without Foolproof Hole
TSB0-010X4-00XX



Foolproof Hole on The Left
TSB0-012X4-00XX



2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

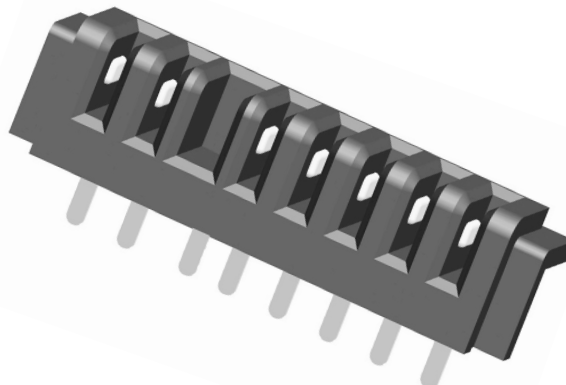
TSB0-01 $\frac{2}{a} \frac{X}{b} 6 - 00 \frac{X}{c} \frac{X}{d}$

$a=2$ -Foolproof Hole on The Left

$b=4\sim 9$ -4~9Pins , A-10Pins

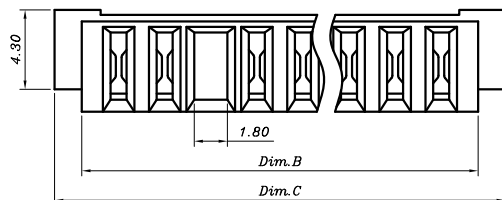
c =Packing Option

d =Plating Option



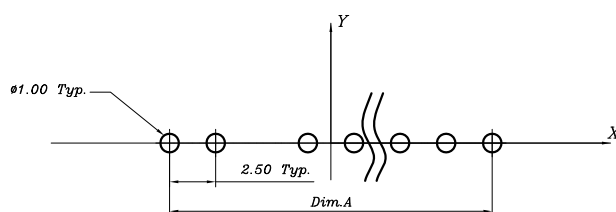
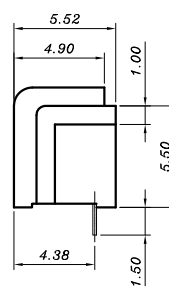
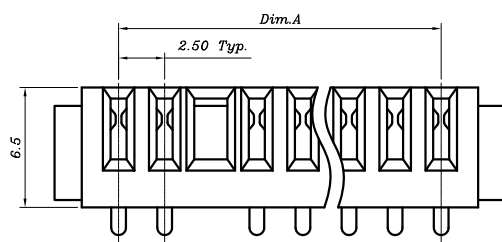
Foolproof Hole on The Left

TSB0-012X6-00XX



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
* TSB0-01246-00XX	10.00	14.00	16.95
* TSB0-01256-00XX	12.50	16.50	19.45
* TSB0-01266-00XX	15.00	19.00	21.95
* TSB0-01276-00XX	17.50	21.50	24.45
* TSB0-01286-00XX	20.00	24.00	26.95
* TSB0-01296-00XX	22.50	26.50	29.45
* TSB0-012A6-00XX	25.00	29.00	31.95



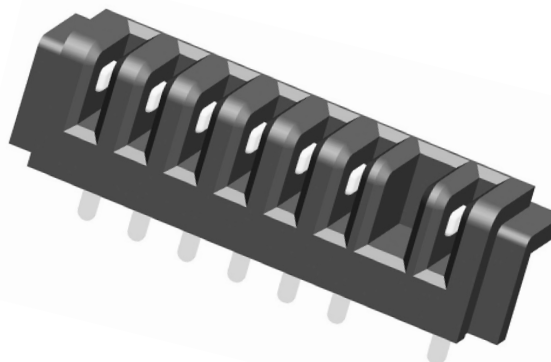
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

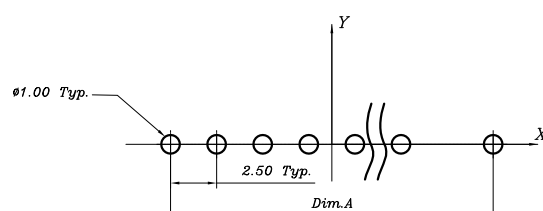
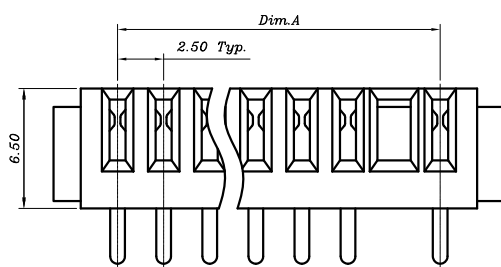
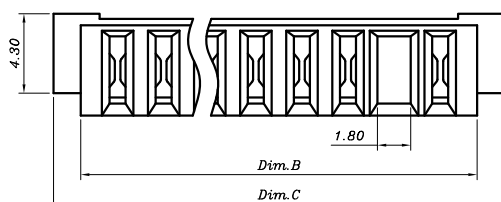
TSB0-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

a =0-Without Foolproof Hole
 1-Foolproof Hole on The Right
 2-Foolproof Hole on The Left
 b =3~9-3~9Pins , A-10Pins
 c =A-Dim.D=3.0
 B-Dim.D=2.3
 F-Dim.D=1.5
 d =Packing Option
 e =Plating Option



Foolproof Hole on The Right

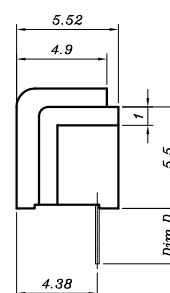
TSB0-011XX-00XX



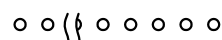
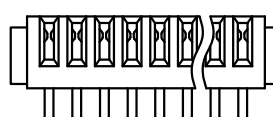
Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

Dimension Information :

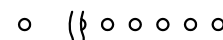
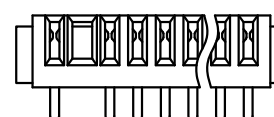
P/N:	Dim.A	Dim.B	Dim.C
* TSB0-0104X-00XX	7.50	11.50	14.45
* TSB0-0105X-00XX	10.00	14.00	16.95
* TSB0-0106X-00XX	12.50	16.50	19.45
* TSB0-0107X-00XX	15.00	19.00	21.95
* TSB0-0108X-00XX	17.50	21.50	24.45
* TSB0-0109X-00XX	20.00	24.00	26.95
* TSB0-010AX-00XX	22.50	26.50	29.45
* TSB0-0113X-00XX	7.50	11.50	14.45
* TSB0-0123X-00XX	10.00	14.00	16.95
* TSB0-0114X-00XX	12.50	16.50	19.45
* TSB0-0115X-00XX	15.00	19.00	21.95
* TSB0-0116X-00XX	17.50	21.50	24.45
* TSB0-0117X-00XX	20.00	24.00	26.95
* TSB0-0118X-00XX	22.50	26.50	29.45
* TSB0-0129X-00XX	22.50	26.50	29.45



Without Foolproof Hole
 TSB0-010XX-00XX



Foolproof Hole on The Left
 TSB0-012XX-00XX

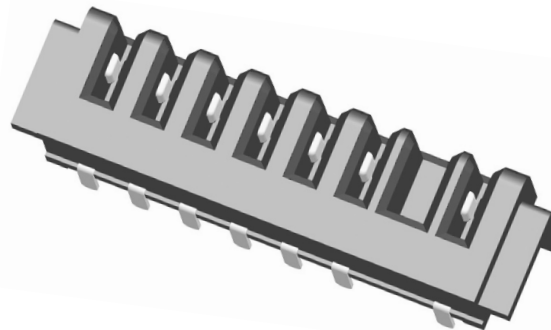


2.5mm BATTERY CONNECTOR, FEMALE

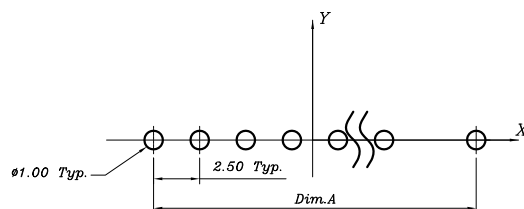
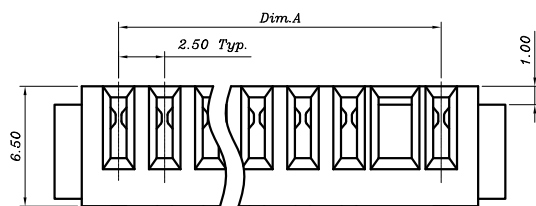
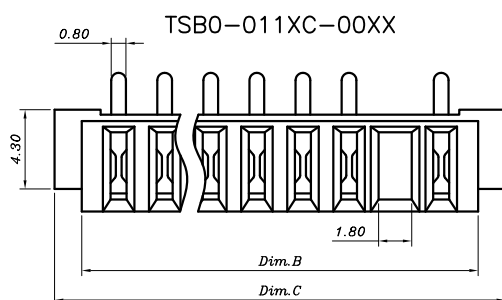
ORDER INFORMATION

TSB0-01 $\frac{X}{a} \frac{X}{b} C - 00 \frac{X}{c} \frac{X}{d}$

$a=0$ —Without Foolproof Hole
 1—Foolproof Hole on The Right
 2—Foolproof Hole on The Left
 $b=3\sim9$ —3~9Pins, A—10Pins
 c =Packing Option
 d =Plating Option



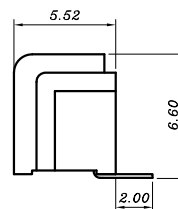
Foolproof Hole on The Right



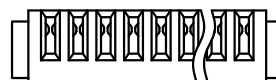
Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

Dimension Information :

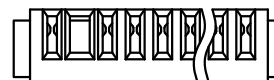
P/N:	Dim.A	Dim.B	Dim.C
* TSB0-0104C-00XX	7.50	11.50	14.45
* TSB0-0105C-00XX	10.00	14.00	16.95
* TSB0-0106C-00XX	12.50	16.50	19.45
* TSB0-0107C-00XX	15.00	19.00	21.95
* TSB0-0108C-00XX	17.50	21.50	24.45
* TSB0-0109C-00XX	20.00	24.00	26.95
* TSB0-010AC-00XX	22.50	26.50	29.45
* TSB0-0113C-00XX	7.50	11.50	14.45
* TSB0-0123C-00XX	10.00	14.00	16.95
* TSB0-0114C-00XX	12.50	16.50	19.45
* TSB0-0115C-00XX	15.00	19.00	21.95
* TSB0-0116C-00XX	17.50	21.50	24.45
* TSB0-0117C-00XX	20.00	24.00	26.95
* TSB0-0118C-00XX	22.50	26.50	29.45
* TSB0-0119C-00XX	7.50	11.50	14.45
* TSB0-0129C-00XX	10.00	14.00	16.95



Without Foolproof Hole
 TSB0-010XC-00XX



Foolproof Hole on The Left
 TSB0-012XC-00XX



2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-01 $\frac{X}{a} \frac{X}{b} D - 00 \frac{X}{c} \frac{X}{d}$

$a=0$ —Without Foolproof Hole

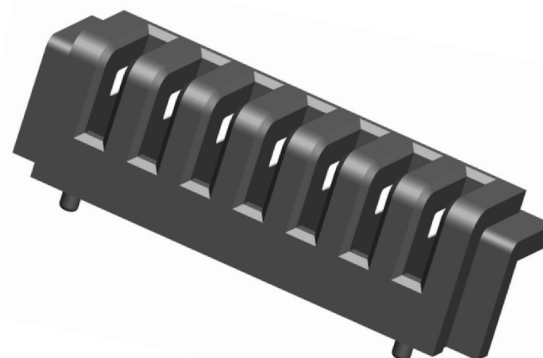
1—Foolproof Hole on The Right

2—Foolproof Hole on The Left

$b=3\sim9$ —3~9Pins, A—10Pins

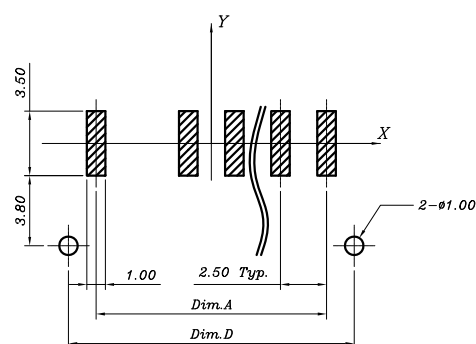
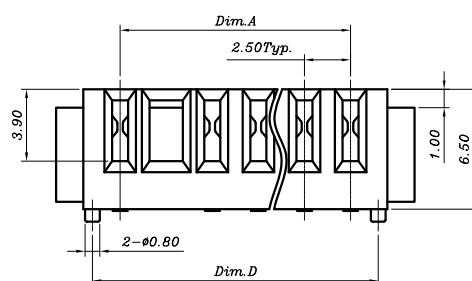
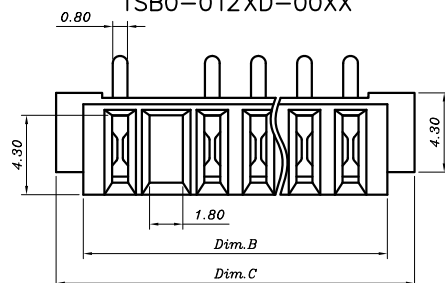
c =Packing Option

d =Plating Option



Foolproof Hole on The Left

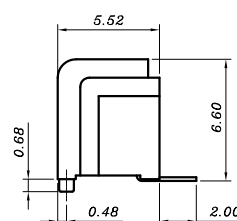
TSB0-012XD-00XX



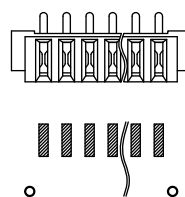
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

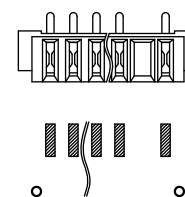
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0104D-00XX	7.50	11.50	14.45	10.50
* TSB0-0105D-00XX	10.00	14.00	16.95	13.00
* TSB0-0106D-00XX	12.50	16.50	19.45	15.50
* TSB0-0107D-00XX	15.00	19.00	21.95	18.00
* TSB0-0108D-00XX	17.50	21.50	24.45	20.50
* TSB0-0109D-00XX	20.00	24.00	26.95	23.00
* TSB0-010AD-00XX	22.50	26.50	29.45	25.50
* TSB0-0113D-00XX	7.50	11.50	14.45	10.50
* TSB0-0123D-00XX	10.00	14.00	16.95	13.00
* TSB0-0114D-00XX	12.50	16.50	19.45	15.50
* TSB0-0124D-00XX	15.00	19.00	21.95	18.00
* TSB0-0115D-00XX	17.50	21.50	24.45	20.50
* TSB0-0125D-00XX	20.00	24.00	26.95	23.00
* TSB0-0116D-00XX	22.50	26.50	29.45	25.50
* TSB0-0126D-00XX	7.50	11.50	14.45	10.50
* TSB0-0117D-00XX	10.00	14.00	16.95	13.00
* TSB0-0127D-00XX	12.50	16.50	19.45	15.50
* TSB0-0118D-00XX	15.00	19.00	21.95	18.00
* TSB0-0128D-00XX	17.50	21.50	24.45	20.50
* TSB0-0119D-00XX	20.00	24.00	26.95	23.00
* TSB0-0129D-00XX	22.50	26.50	29.45	25.50



Without Foolproof Hole
TSB0-010XD-00XX



Foolproof Hole on The Right
TSB0-011XD-00XX



2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-014 $\frac{X}{a} \frac{X}{b} - 50 \frac{X}{c} \frac{X}{d}$

$a=0$ —Without Foolproof Hole

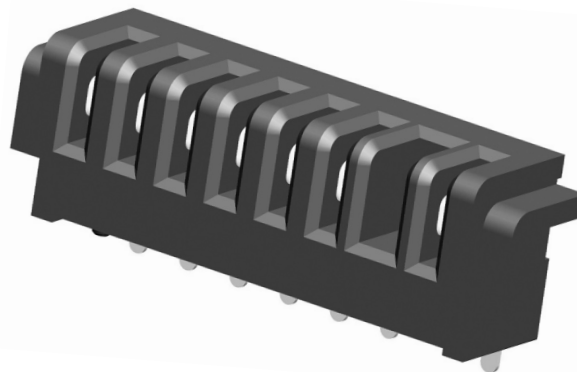
1—Foolproof Hole on The Right

2—Foolproof Hole on The Left

$b=3\sim9$ —3~9Pins , A—10Pins , B—11Pins

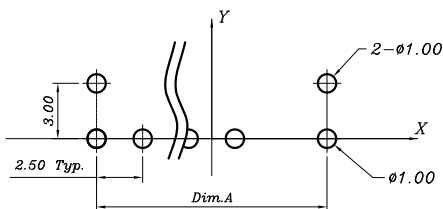
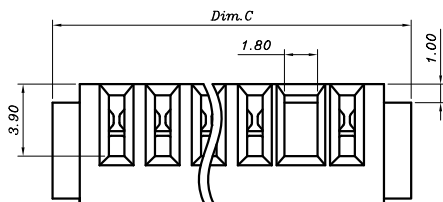
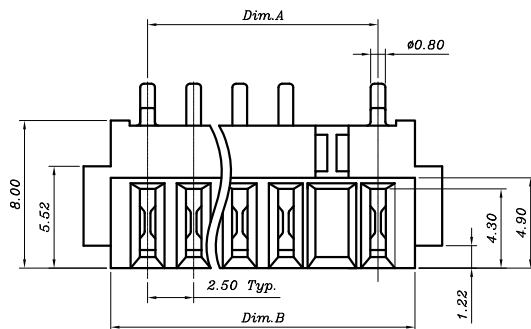
c =Packing Option

d =Plating Option



Foolproof Hole on The Right

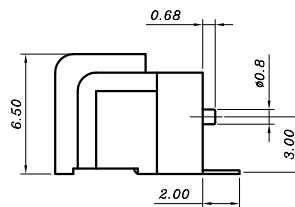
TSB0-0141X-50XX



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
* TSB0-01404-50XX	7.50	11.50	14.45
* TSB0-01405-50XX	10.00	14.00	16.95
* TSB0-01406-50XX	12.50	16.50	19.45
* TSB0-01407-50XX	15.00	19.00	21.95
* TSB0-01408-50XX	17.50	21.50	24.45
* TSB0-01409-50XX	20.00	24.00	26.95
* TSB0-0140A-50XX	22.50	26.50	29.45
* TSB0-0140B-50XX	25.00	29.00	31.95
* TSB0-01413-50XX	7.50	11.50	14.45
* TSB0-01423-50XX	10.00	14.00	16.95
* TSB0-01414-50XX	12.50	16.50	19.45
* TSB0-01415-50XX	15.00	19.00	21.95
* TSB0-01416-50XX	17.50	21.50	24.45
* TSB0-01417-50XX	20.00	24.00	26.95
* TSB0-01418-50XX	22.50	26.50	29.45
* TSB0-01419-50XX	25.00	29.00	31.95
* TSB0-0142A-50XX	7.50	11.50	14.45
* TSB0-01423-50XX	10.00	14.00	16.95
* TSB0-01424-50XX	12.50	16.50	19.45
* TSB0-01425-50XX	15.00	19.00	21.95
* TSB0-01426-50XX	17.50	21.50	24.45
* TSB0-01427-50XX	20.00	24.00	26.95
* TSB0-01428-50XX	22.50	26.50	29.45
* TSB0-01429-50XX	25.00	29.00	31.95
* TSB0-0141A-50XX	7.50	11.50	14.45
* TSB0-0142A-50XX	10.00	14.00	16.95



Without Foolproof Hole
TSB0-0140X-50XX



Foolproof Hole on The Left
TSB0-0142X-50XX



2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-02 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

$\alpha=0$ —Without Foolproof Hole

1—Foolproof Hole on The Right

2—Foolproof Hole on The Left

$b=3\sim9$ —3~9Pins, A—10Pins

$c=1$ —Dim.E=2.9, With Post

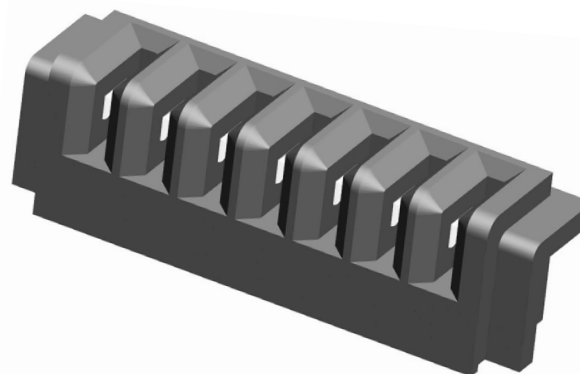
3—Dim.E=2.2, W/O Post

4—Dim.E=2.9, W/O Post

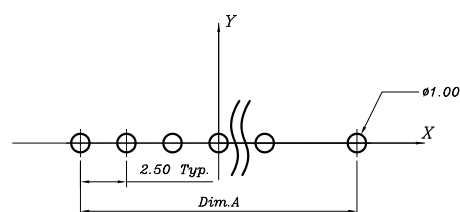
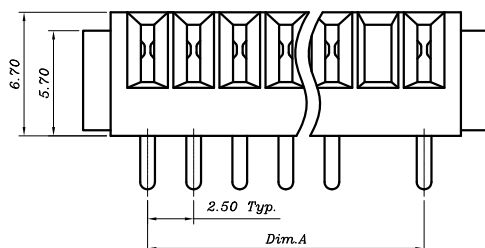
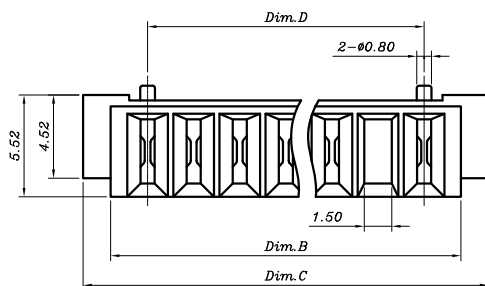
6—Dim.E=2.2, With Post

d =Packing Option

e =Plating Option



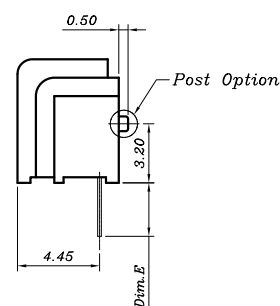
Foolproof Hole on The Right
TSB0-021XX-00XX



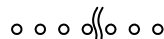
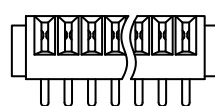
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

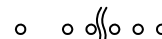
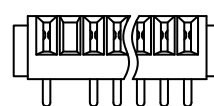
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0204X-00XX	7.50	11.50	14.45	7.50
* TSB0-0205X-00XX	10.00	14.00	16.95	10.00
* TSB0-0206X-00XX	12.50	16.50	19.45	12.50
* TSB0-0207X-00XX	15.00	19.00	21.95	15.00
* TSB0-0208X-00XX	17.50	21.50	24.45	17.50
* TSB0-0209X-00XX	20.00	24.00	26.95	20.00
* TSB0-020AX-00XX	22.50	26.50	29.45	22.50
* TSB0-0213X-00XX	7.50	11.50	14.45	7.50
* TSB0-0223X-00XX	10.00	14.00	16.95	10.00
* TSB0-0214X-00XX	12.50	16.50	19.45	12.50
* TSB0-0215X-00XX	15.00	19.00	21.95	15.00
* TSB0-0216X-00XX	17.50	21.50	24.45	17.50
* TSB0-0217X-00XX	20.00	24.00	26.95	20.00
* TSB0-0218X-00XX	22.50	26.50	29.45	22.50
* TSB0-0219X-00XX				
* TSB0-0229X-00XX				



Without Foolproof Hole
TSB0-020XX-00XX



Foolproof Hole on The Left
TSB0-022XX-00XX

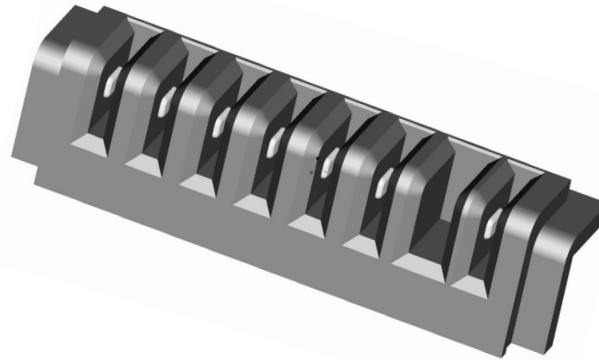


2.5mm BATTERY CONNECTOR, FEMALE

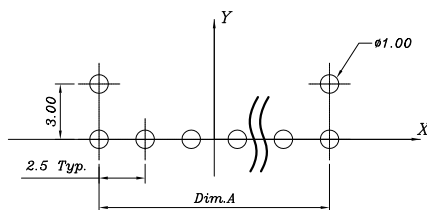
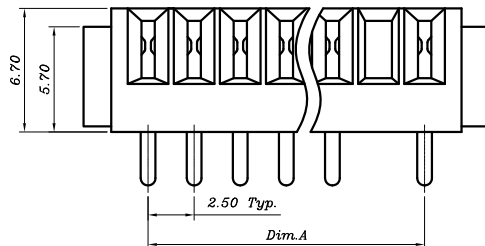
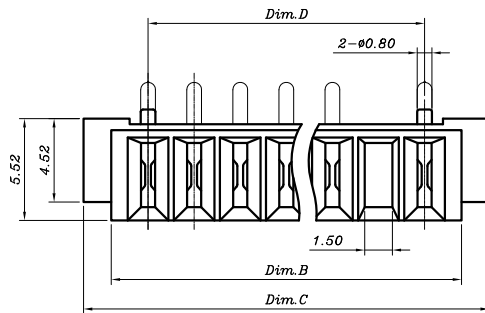
ORDER INFORMATION

TSB0-02 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

$a=0$ —Without Foolproof Hole
 1—Foolproof Hole on The Right
 2—Foolproof Hole on The Left
 $b=3\sim9$ —3~9Pins, A—10Pins
 $c=2$ —Dim.E=2.0, With Post
 5—Dim.E=2.0, W/O Post
 d =Packing Option
 e =Plating Option



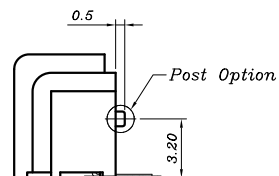
Foolproof Hole on The Right
 TSB0-021XX-00XX



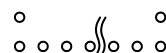
Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

Dimension Information :

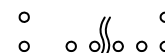
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0204X-00XX	7.50	11.50	14.45	7.50
* TSB0-0205X-00XX	10.00	14.00	16.95	10.00
* TSB0-0206X-00XX	12.50	16.50	19.45	12.50
* TSB0-0207X-00XX	15.00	19.00	21.95	15.00
* TSB0-0208X-00XX	17.50	21.50	24.45	17.50
* TSB0-0209X-00XX	20.00	24.00	26.95	20.00
* TSB0-020AX-00XX	22.50	26.50	29.45	22.50
* TSB0-0213X-00XX	7.50	11.50	14.45	7.50
* TSB0-0223X-00XX	10.00	14.00	16.95	10.00
* TSB0-0214X-00XX	12.50	16.50	19.45	12.50
* TSB0-0215X-00XX	15.00	19.00	21.95	15.00
* TSB0-0216X-00XX	17.50	21.50	24.45	17.50
* TSB0-0217X-00XX	20.00	24.00	26.95	20.00
* TSB0-0218X-00XX	22.50	26.50	29.45	22.50
* TSB0-0219X-00XX				
* TSB0-0229X-00XX				



Without Foolproof Hole
 TSB0-020XX-00XX



Foolproof Hole on The Left
 TSB0-022XX-00XX

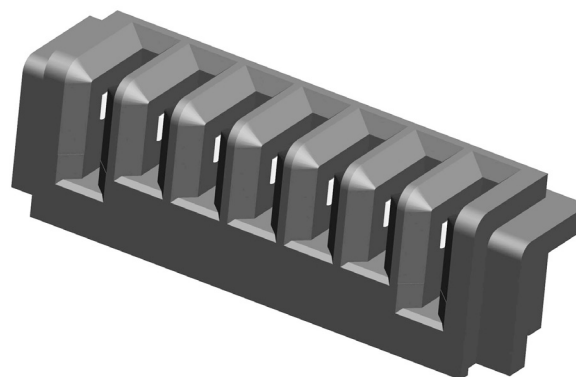


2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-03 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

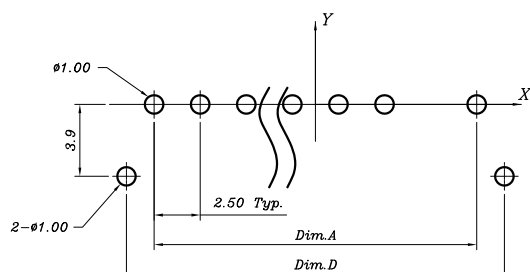
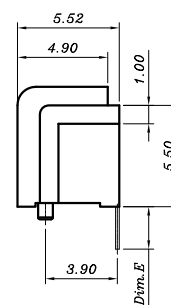
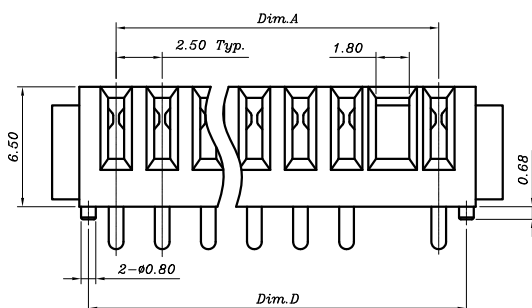
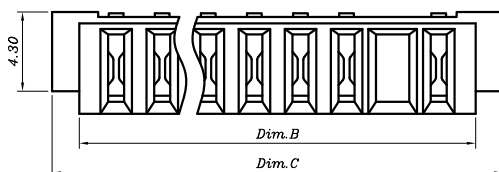
a =0-Without Foolproof Hole
 2-Foolproof Hole on The Left
 3-Foolproof Hole on The Right
 4-Foolproof Hole on The Left
 b =3~9-3~9Pins , A-10Pins
 c =1-Dim.E=2.4
 5-Dim.E=1.5
 d =Packing Option
 e =Plating Option



Dimension Information :

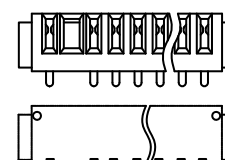
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0304X-00XX	7.50	11.50	14.45	10.50
* TSB0-0305X-00XX	10.00	14.00	16.95	13.00
* TSB0-0306X-00XX	12.50	16.50	19.45	15.50
* TSB0-0307X-00XX	15.00	19.00	21.95	18.00
* TSB0-0308X-00XX	17.50	21.50	24.45	20.50
* TSB0-0309X-00XX	20.00	24.00	26.95	23.00
* TSB0-030AX-00XX	22.50	26.50	29.45	25.50
* TSB0-03X3X-00XX	7.50	11.50	14.45	10.50
* TSB0-03X4X-00XX	10.00	14.00	16.95	13.00
* TSB0-03X5X-00XX	12.50	16.50	19.45	15.50
* TSB0-03X6X-00XX	15.00	19.00	21.95	18.00
* TSB0-03X7X-00XX	17.50	21.50	24.45	20.50
* TSB0-03X8X-00XX	20.00	24.00	26.95	23.00
* TSB0-03X9X-00XX	22.50	26.50	29.45	25.50

Foolproof Hole on The Right
 TSB0-033XX-00XX

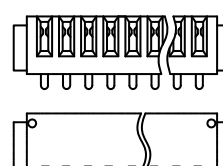


Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

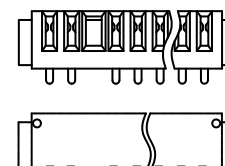
Foolproof Hole on The Left
 TSB0-034XX-00XX



Without Foolproof Hole
 TSB0-030XX-00XX



Foolproof Hole on The Left
 TSB0-032XX-00XX

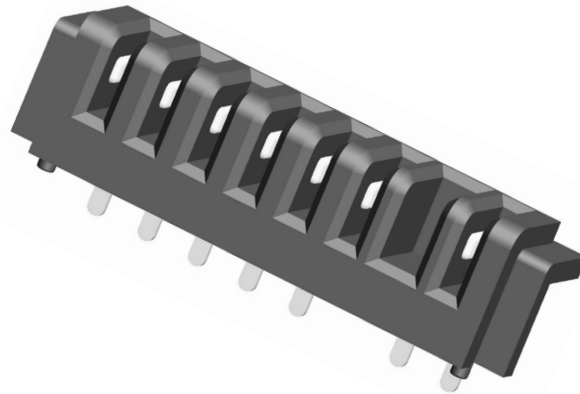


2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-03 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - 00 \frac{X}{d} \frac{X}{e}$

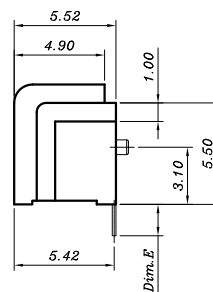
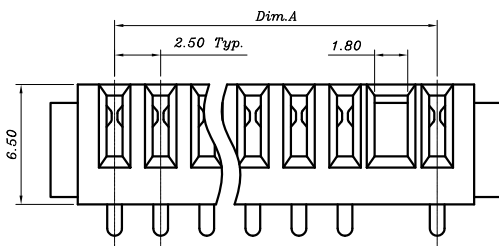
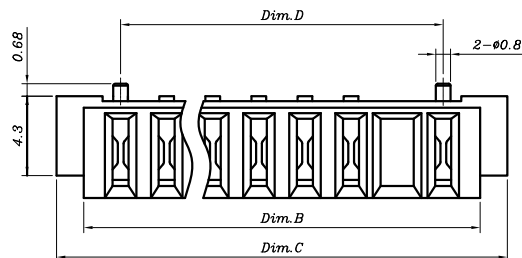
$a=0$ —Without Foolproof Hole
 2—Foolproof Hole on The Left
 3—Foolproof Hole on The Right
 4—Foolproof Hole on The Left
 $b=3\sim 9$ —3~9Pins , A—10Pins
 $c=2$ —Dim.E=2.4
 4—Dim.E=1.7
 d =Packing Option
 e =Plating Option



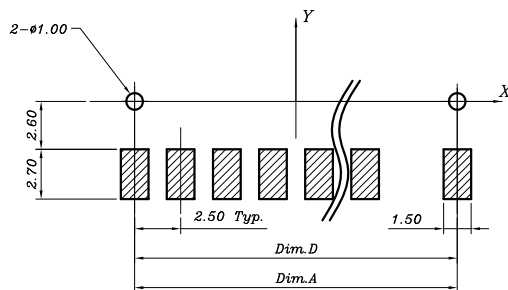
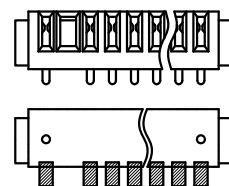
Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0304X-00XX	7.50	11.50	14.45	7.50
* TSB0-0305X-00XX	10.00	14.00	16.95	10.00
* TSB0-0306X-00XX	12.50	16.50	19.45	12.50
* TSB0-0307X-00XX	15.00	19.00	21.95	15.00
* TSB0-0308X-00XX	17.50	21.50	24.45	17.50
* TSB0-0309X-00XX	20.00	24.00	26.95	20.00
* TSB0-030AX-00XX	22.50	26.50	29.45	22.50
* TSB0-03X3X-00XX	7.50	11.50	14.45	7.50
* TSB0-03X4X-00XX	10.00	14.00	16.95	10.00
* TSB0-03X5X-00XX	12.50	16.50	19.45	12.50
* TSB0-03X6X-00XX	15.00	19.00	21.95	15.00
* TSB0-03X7X-00XX	17.50	21.50	24.45	17.50
* TSB0-03X8X-00XX	20.00	24.00	26.95	20.00
* TSB0-03X9X-00XX	22.50	26.50	29.45	22.50

Foolproof Hole on The Right
 TSB0-033XX-00XX

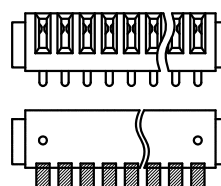


Foolproof Hole on The Left
 TSB0-034XX-00XX

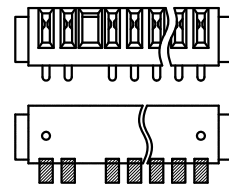


Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

Without Foolproof Hole
 TSB0-030XX-00XX



Foolproof Hole on The Left
 TSB0-032XX-00XX



2.5mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSB0-041 $\frac{X}{a} \frac{X}{b} - 00 \frac{X}{c} \frac{X}{d} A$

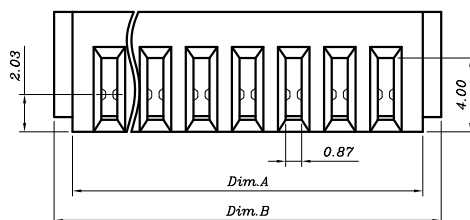
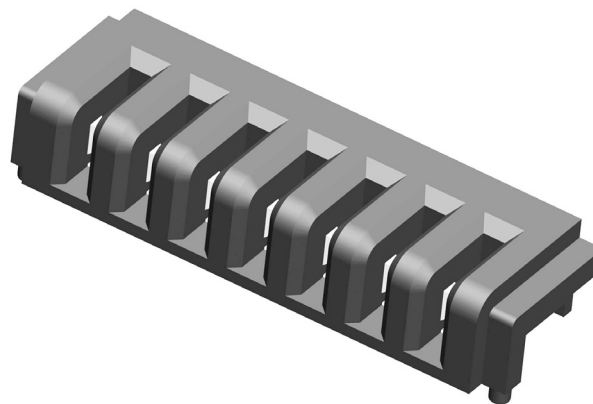
$a=3\sim 8-3\sim 8$ Pins

$b=1$ -DIP Type

2-SMT Type

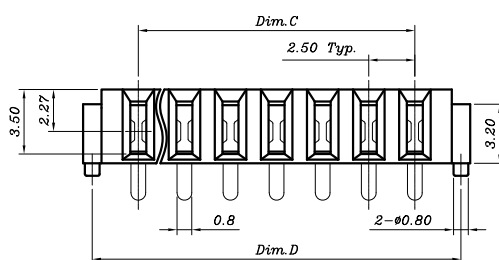
c =Packing Option

d =Plating Option

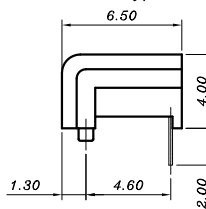


Dimension Information :

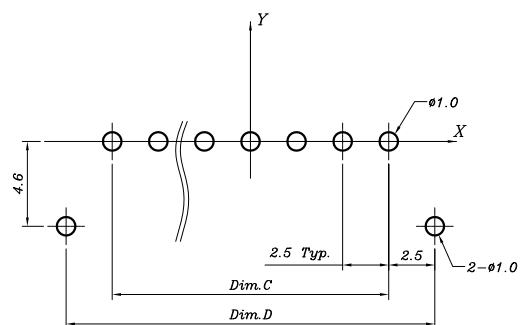
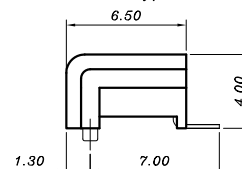
P/N:	Dim.A	Dim.B	Dim.C	Dim.D
* TSB0-0413X-00XXA	9.00	11.00	5.00	10.00
TSB0-0414X-00XXA	11.50	13.50	7.50	12.50
TSB0-0415X-00XXA	14.00	16.00	10.00	15.00
TSB0-0416X-00XXA	16.50	18.50	12.50	17.50
* TSB0-0417X-00XXA	19.00	21.00	15.00	20.00
TSB0-0418X-00XXA	21.50	23.50	17.50	22.50



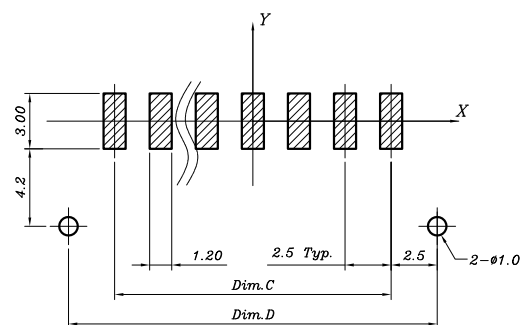
TSB0-041X1-00XXA
DIP Type



TSB0-041X2-00XXA
SMT Type



Recommended P.C.B. Layout (DIP Type)
Layout Tolerance = ± 0.05 mm



Recommended P.C.B. Layout (SMT Type)
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, FEMALE

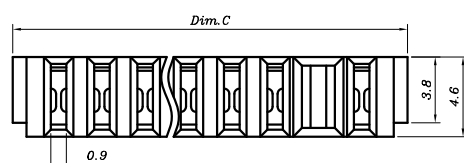
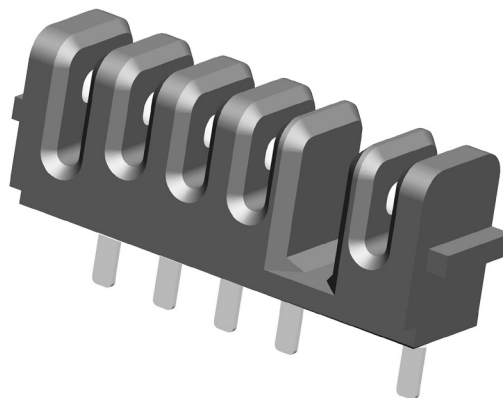
ORDER INFORMATION

TSB0-101 $\frac{X}{a}$ 1 - 20 $\frac{X}{b}$ $\frac{X}{c}$

a =5~9-5~9Pins, A-10Pins

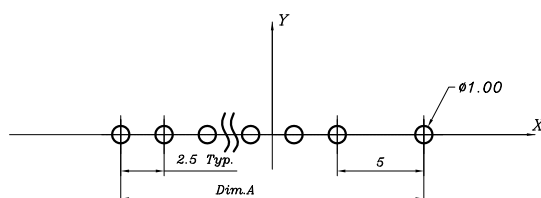
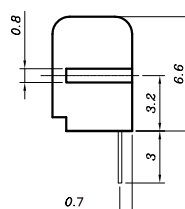
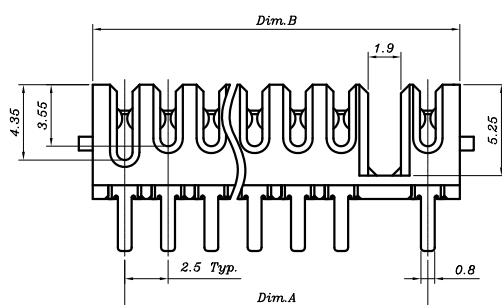
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
TSB0-10151-20XX	12.50	16.20	17.80
TSB0-10161-20XX	15.00	18.70	20.30
TSB0-10171-20XX	17.50	21.20	22.80
TSB0-10181-20XX	20.00	23.70	25.30
TSB0-10191-20XX	22.50	26.20	27.80
TSB0-101A1-20XX	25.00	28.70	30.30



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - \frac{X}{d} \frac{X}{e} \frac{X}{f} \frac{X}{g}$

α =1-Without Foolproof Pillar

2-Foolproof Pillar on The Left

3-Foolproof Pillar on The Right

b =3~9-3~9Pins, A-10Pins

c =1-Dim.D=2.4, Dim.E=4.0, Dim.F=2.0

2-Dim.D=3.0, Dim.E=4.6, Dim.F=2.6

3-Dim.D=2.4, Dim.E=5.2, Dim.F=3.2

d =0-Without Nut, 1-With Nut

e =1-Large Pin on The Position 1

2-Large Pin on The Position N

3-Large Pin on The Position 1&N

4-Large Pin on The Position 1

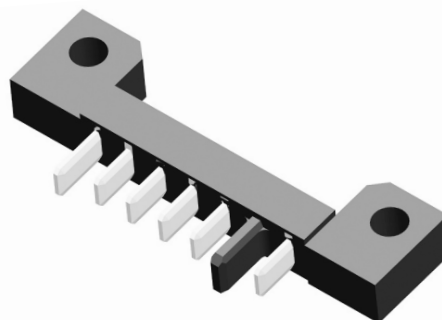
5-Large Pin on The Position N

7-Large Pin on The Position 1,2,3,4

8-Large Pin on The Position N

f =Packing Option

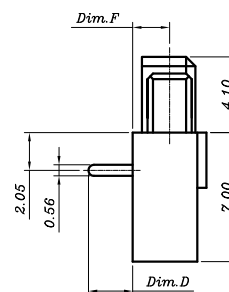
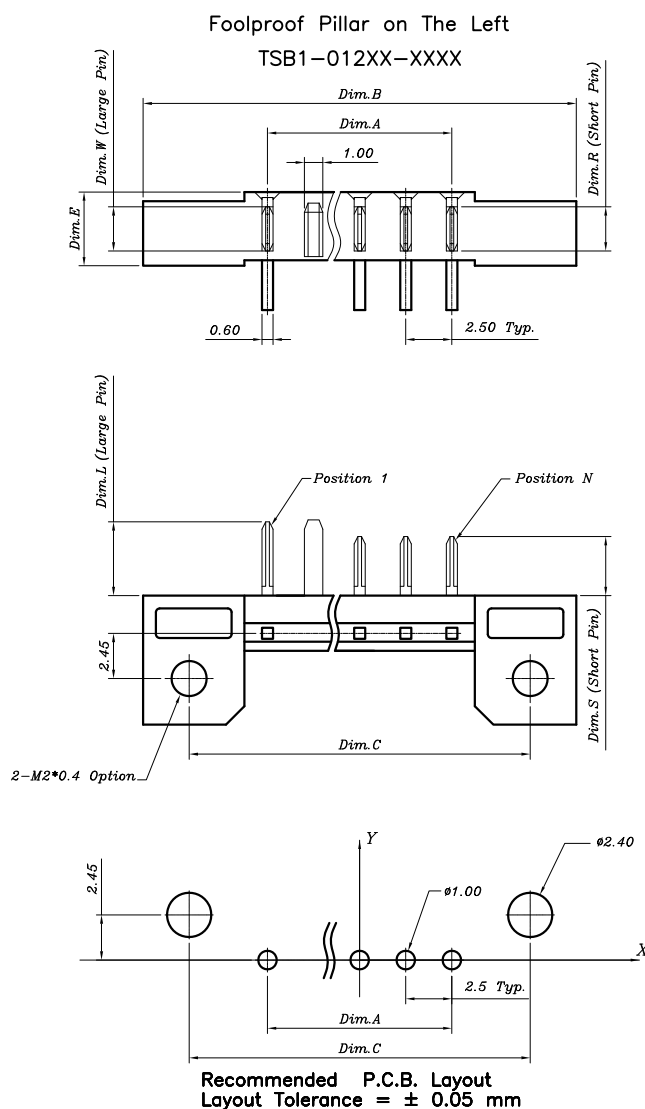
g =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
*TSB1-01X3X-XXXX	7.50	21.00	16.00
*TSB1-0104X-XXXX			
*TSB1-01X4X-XXXX	10.00	23.50	18.50
*TSB1-0105X-XXXX			
*TSB1-01X5X-XXXX	12.50	26.00	21.00
*TSB1-0106X-XXXX			
*TSB1-01X6X-XXXX	15.00	28.50	23.50
*TSB1-0107X-XXXX			
*TSB1-01X7X-XXXX	17.50	31.00	26.00
*TSB1-0108X-XXXX			
*TSB1-01X8X-XXXX	20.00	33.50	28.50
*TSB1-0109X-XXXX			
*TSB1-01X9X-XXXX	22.50	36.00	31.00
*TSB1-010AX-XXXX			

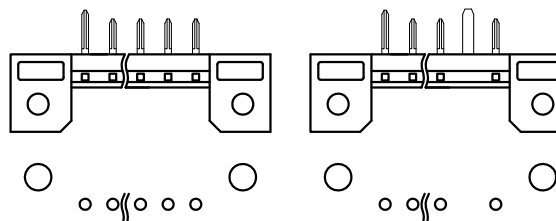
Pin Type Information	Large Pin		Short Pin	
	Dim.L	Dim.W	Dim.S	Dim.R
TSB1-01XXX-X1XX	4.00	2.40	3.20	2.40
TSB1-01XXX-X2XX	4.00	2.40	3.20	2.40
TSB1-01XXX-X3XX	4.20	3.00	3.60	2.40
TSB1-01XXX-X4XX	4.20	3.00	3.60	2.40
TSB1-01XXX-X5XX	4.20	3.00	3.60	2.40
TSB1-01XXX-X7XX	4.20	3.00	3.60	2.40
TSB1-01XXX-X8XX	4.00	2.40	3.60	2.40



Without Foolproof Pillar Foolproof Pillar on The Right

TSB1-011XX-XXXX

TSB1-013XX-XXXX



2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-021 $\frac{X}{a} \frac{2}{b} - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=3\sim 9-3\sim 9$ Pins, A-10 Pins

$b=2$ -Foolproof Pillar on The Left

$c=1$ -Large Pin on The Position 1&2 (Dim.L=4.0)

2-Large Pin on The Position 1 (Dim.L=4.5)

3-Large Pin on The Position 1&N (Dim.L=4.5)

4-Large Pin on The Position 1 (Dim.L=4.0)

5-Large Pin on The Position 1&2&3 (Dim.L=4.0)

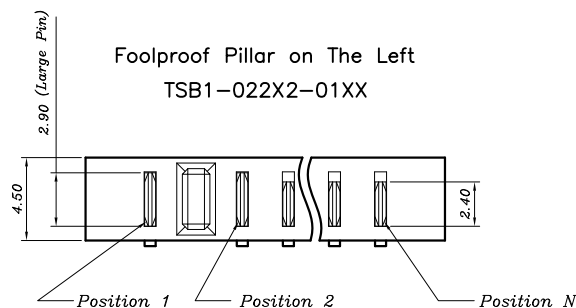
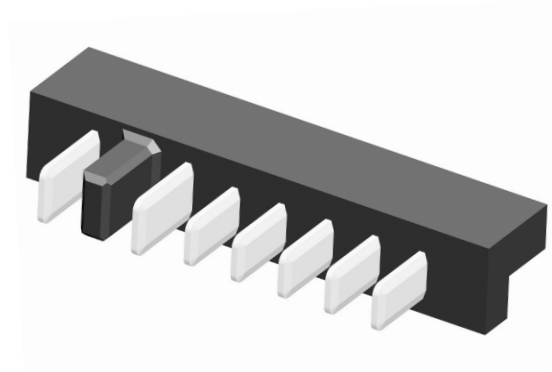
6-Large Pin on The Position 1&2 (Dim.L=4.5)

7-Large Pin on The Position N (Dim.L=4.5)

8-All are Large Pin (Dim.L=4.5)

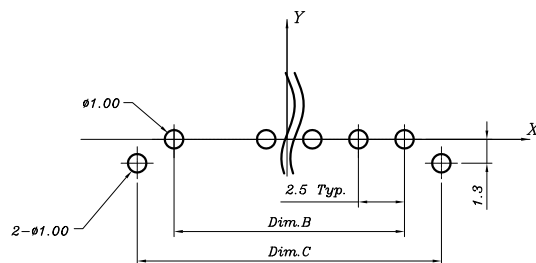
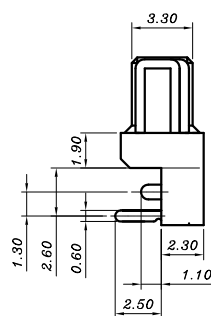
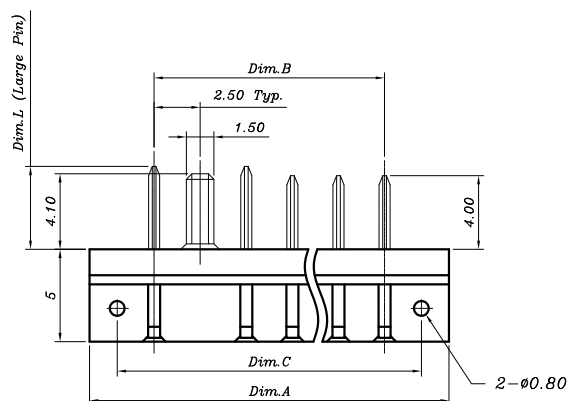
d =Packing Option

e =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
* TSB1-02132-0XXX	14.50	7.50	11.50
* TSB1-02142-0XXX	17.00	10.00	14.00
* TSB1-02152-0XXX	19.50	12.50	16.50
* TSB1-02162-0XXX	22.00	15.00	19.00
* TSB1-02172-0XXX	24.50	17.50	21.50
* TSB1-02182-0XXX	27.00	20.00	24.00
* TSB1-02192-0XXX	29.50	22.50	26.50
* TSB1-021A2-0XXX	32.00	25.00	29.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-021 $\frac{X}{a} \frac{X}{b} - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e}$

α =3~9-3~9Pins, A-10Pins

b =0-Without Foolproof Pillar

1-Foolproof Pillar on The Right

c =1-Large Pin on The Position N&N-1 (Dim.L=4.0)

2-Large Pin on The Position N (Dim.L=4.5)

3-Large Pin on The Position 1&N (Dim.L=4.5)

4-Large Pin on The Position N (Dim.L=4.0)

5-Large Pin on The Position N&N-1&N-2 (Dim.L=4.0)

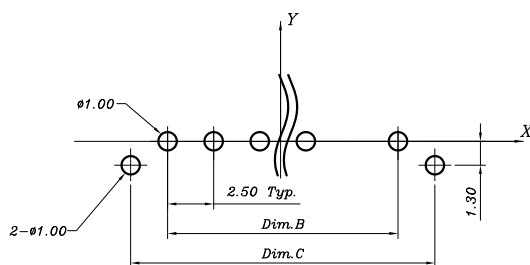
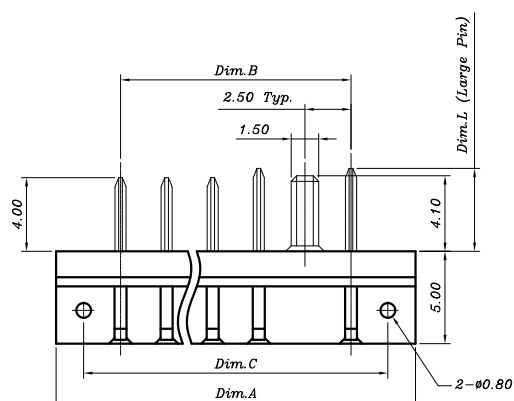
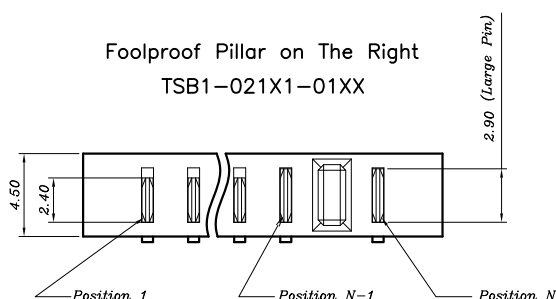
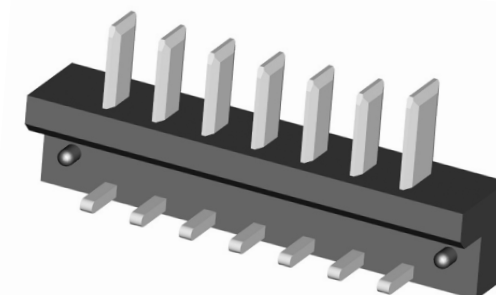
6-Large Pin on The Position N&N-1 (Dim.L=4.5)

7-Large Pin on The Position 1 (Dim.L=4.5)

8-All are Large Pin (Dim.L=4.5)

d =Packing Option

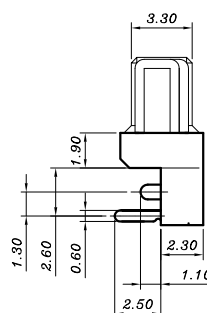
e =Plating Option



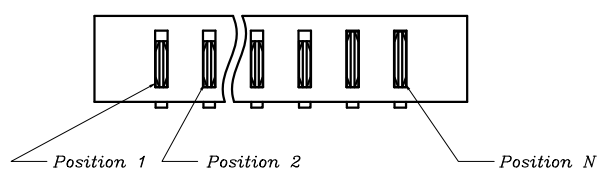
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
* TSB1-02131-0XXX	14.50	7.50	11.50
* TSB1-02140-0XXX			
* TSB1-02141-0XXX	17.00	10.00	14.00
* TSB1-02150-0XXX			
* TSB1-02151-0XXX	19.50	12.50	16.50
* TSB1-02160-0XXX			
* TSB1-02161-0XXX	22.00	15.00	19.00
* TSB1-02170-0XXX			
* TSB1-02171-0XXX	24.50	17.50	21.50
* TSB1-02180-0XXX			
* TSB1-02181-0XXX	27.00	20.00	24.00
* TSB1-02190-0XXX			
* TSB1-02191-0XXX	29.50	22.50	26.50
* TSB1-021A0-0XXX			



Without Foolproof Pillar
TSB1-021X0-01XX



2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-04 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - \frac{X}{d} \frac{X}{e} \frac{X}{f} \frac{X}{g}$

$a=0$ —Without Foolproof Pillar

1—Foolproof Pillar on The Position N-1

2—Foolproof Pillar on The Position 2

$b=3\sim 9$ —3~9Pins, A—10Pins

$c=1$ —Dim.H=4.0, Dim.D=2.4

2—Dim.H=4.6, Dim.D=3.0

3—Dim.H=4.35, Dim.D=2.15

6—Dim.H=5.85, Dim.D=1.75

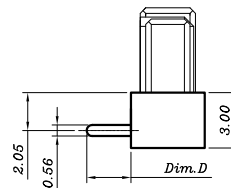
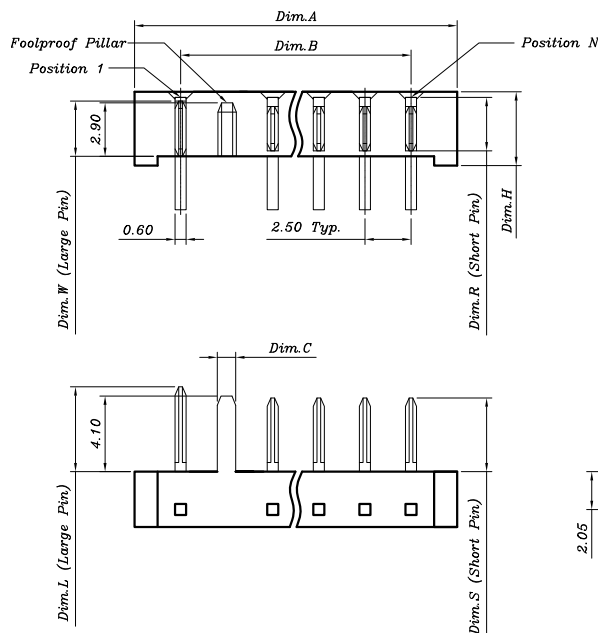
7—Dim.H=5.0, Dim.D=2.6

$d=0$ —Dim.C=1.0, 1—Dim.C=1.5

e —See Pin Type Information

f —Packing Option

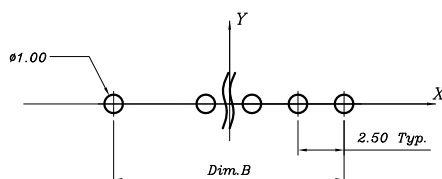
g —Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B
* TSB1-0404X-XXXX	12.50	7.50
* TSB1-0405X-XXXX	15.00	10.00
* TSB1-0406X-XXXX	17.50	12.50
* TSB1-0407X-XXXX	20.00	15.00
* TSB1-0408X-XXXX	22.50	17.50
* TSB1-0409X-XXXX	25.00	20.00
* TSB1-040AX-XXXX	27.50	22.50
* TSB1-0413X-XXXX	12.50	7.50
* TSB1-0423X-XXXX	15.00	10.00
* TSB1-0414X-XXXX	17.50	12.50
* TSB1-0424X-XXXX	20.00	15.00
* TSB1-0415X-XXXX	22.50	17.50
* TSB1-0425X-XXXX	25.00	20.00
* TSB1-0416X-XXXX	27.50	22.50
* TSB1-0426X-XXXX	30.00	25.00
* TSB1-0417X-XXXX	32.50	27.50
* TSB1-0427X-XXXX	35.00	30.00
* TSB1-0418X-XXXX	37.50	32.50
* TSB1-0428X-XXXX	40.00	35.00
* TSB1-0419X-XXXX	42.50	37.50
* TSB1-0429X-XXXX	45.00	40.00

Pin Type Information	Large Pin		Short Pin		Large Pin Site
	Dim.L	Dim.W	Dim.S	Dim.R	
TSB1-04XXX-X1XX	4.20	3.00	3.60	2.40	Position 1
TSB1-04XXX-X2XX	4.20	3.00	3.60	2.40	Position N
TSB1-04XXX-X3XX	4.20	3.00	3.60	2.40	Position 1&N
TSB1-04XXX-X4XX	3.60	2.40			All
TSB1-04XXX-X5XX	4.20	3.00			All
TSB1-04XXX-X6XX	5.20	3.00			All
TSB1-04XXX-X7XX	4.00	2.40			All
TSB1-04XXX-X8XX	5.20	3.00	4.60	2.40	Position 1&N
TSB1-04XXX-X9XX	4.60	2.40	4.00	2.40	Position 1
TSB1-04XXX-XGXX	4.00	2.40	3.20	2.40	Position 1
TSB1-04XXX-XHXX	4.00	2.40	3.20	2.40	Position N
TSB1-04XXX-XJXX	4.00	2.40	3.20	2.40	Position 1&N



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-04 $\frac{X}{a} \frac{X}{b} \frac{X}{c} - \frac{X}{d} \frac{X}{e} \frac{X}{f} \frac{X}{g}$

$a=3$ —Without Foolproof Pillar

4—Foolproof Pillar on The Position N-1

5—Foolproof Pillar on The Position 2

$b=3\sim9$ —3~9Pins, A—10Pins

$c=1$ —Dim.H=4.0, Dim.D=2.4

2—Dim.H=4.6, Dim.D=3.0

3—Dim.H=4.35, Dim.D=2.15

6—Dim.H=5.85, Dim.D=1.75

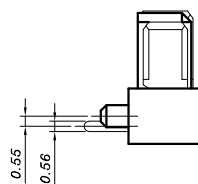
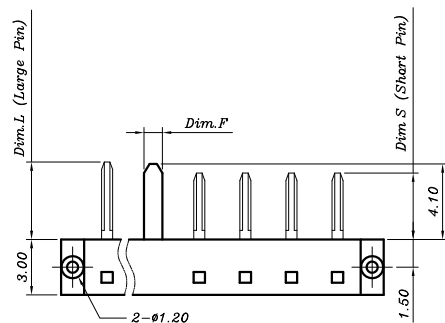
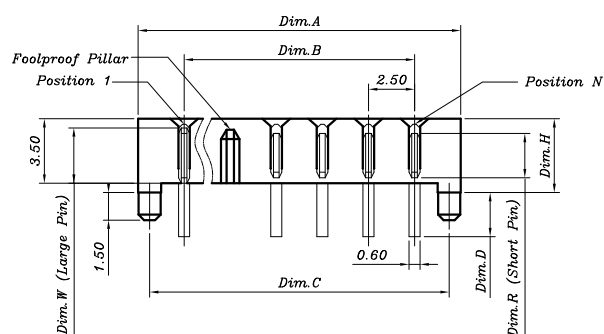
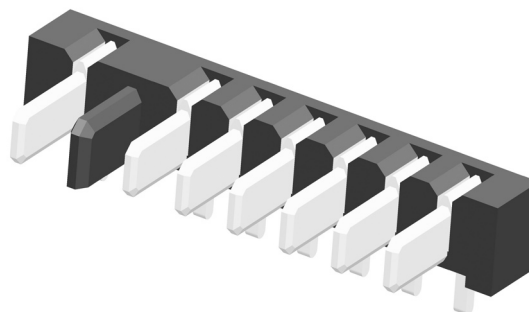
7—Dim.H=5.0, Dim.D=2.6

$d=0$ —Dim.F=1.0, 1—Dim.F=1.5

e —See Pin Type Information

f —Packing Option

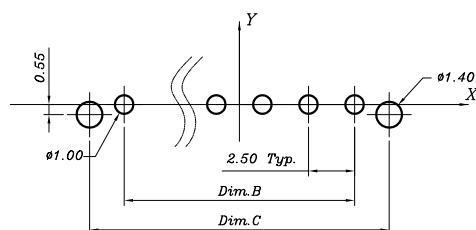
g —Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
* TSB1-0434X-XXXX	12.50	7.50	8.75
* TSB1-0435X-XXXX	15.00	10.00	11.25
* TSB1-0436X-XXXX	17.50	12.50	13.75
* TSB1-0437X-XXXX	20.00	15.00	16.25
* TSB1-0438X-XXXX	22.50	17.50	18.75
* TSB1-0439X-XXXX	25.00	20.00	21.25
* TSB1-043AX-XXXX	27.50	22.50	23.75
* TSB1-0443X-XXXX	12.50	7.50	8.75
* TSB1-0453X-XXXX	15.00	10.00	11.25
* TSB1-0454X-XXXX	17.50	12.50	13.75
* TSB1-0445X-XXXX	20.00	15.00	16.25
* TSB1-0456X-XXXX	22.50	17.50	18.75
* TSB1-0447X-XXXX	25.00	20.00	21.25
* TSB1-0457X-XXXX	27.50	22.50	23.75
* TSB1-0448X-XXXX	25.00	20.00	21.25
* TSB1-0458X-XXXX	27.50	22.50	23.75
* TSB1-0449X-XXXX	25.00	20.00	21.25
* TSB1-0459X-XXXX	27.50	22.50	23.75

Pin Type Information	Large Pin		Short Pin		Large Pin Site
	Dim.L	Dim.W	Dim.S	Dim.R	
TSB1-04XXX-X1XX	4.20	3.00	3.60	2.40	Position 1
TSB1-04XXX-X2XX	4.20	3.00	3.60	2.40	Position N
TSB1-04XXX-X3XX	4.20	3.00	3.60	2.40	Position 1&N
TSB1-04XXX-X4XX	3.60	2.40			All
TSB1-04XXX-X5XX	4.20	3.00			All
TSB1-04XXX-X6XX	5.20	3.00			All
TSB1-04XXX-X7XX	4.00	2.40			All
TSB1-04XXX-X8XX	5.20	3.00	4.60	2.40	Position 1&N
TSB1-04XXX-X9XX	4.60	2.40	4.00	2.40	Position 1
TSB1-04XXX-XGXX	4.00	2.40	3.20	2.40	Position 1
TSB1-04XXX-XHXX	4.00	2.40	3.20	2.40	Position N
TSB1-04XXX-XJXX	4.00	2.40	3.20	2.40	Position 1&N



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-04 $\frac{X}{a} \frac{X}{b} 5 - \frac{XX}{c} \frac{X}{d} \frac{X}{e}$

$a=0$ —Without Foolproof Pillar

1—Foolproof Pillar on The Right

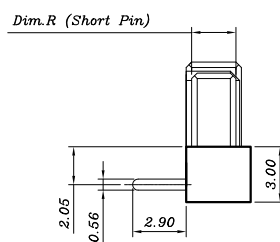
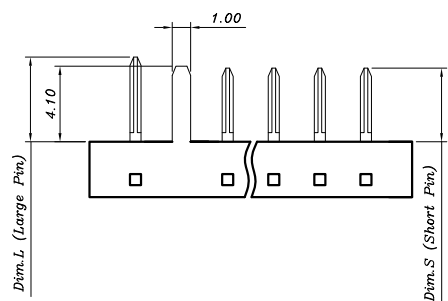
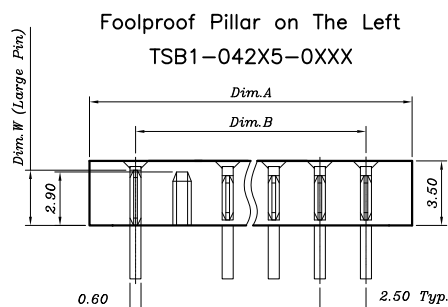
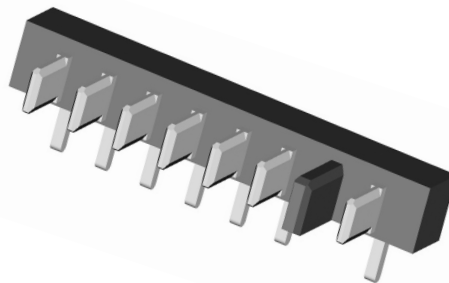
2—Foolproof Pillar on The Left

$b=3\sim9$ —3~9Pins , A—10Pins

c —See Pin Type Information

d —Packing Option

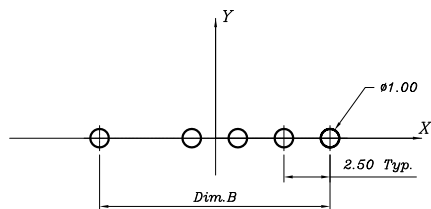
e —Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B
* TSB1-04045-XXXX	12.50	7.50
* TSB1-04055-XXXX	15.00	10.00
* TSB1-04065-XXXX	17.50	12.50
* TSB1-04075-XXXX	20.00	15.00
* TSB1-04085-XXXX	22.50	17.50
* TSB1-04095-XXXX	25.00	20.00
* TSB1-040A5-XXXX	27.50	22.50
* TSB1-04135-XXXX	12.50	7.50
* TSB1-04235-XXXX	15.00	10.00
* TSB1-04145-XXXX	15.00	10.00
* TSB1-04245-XXXX	17.50	12.50
* TSB1-04155-XXXX	17.50	12.50
* TSB1-04255-XXXX	20.00	15.00
* TSB1-04165-XXXX	20.00	15.00
* TSB1-04265-XXXX	22.50	17.50
* TSB1-04175-XXXX	22.50	17.50
* TSB1-04275-XXXX	25.00	20.00
* TSB1-04185-XXXX	25.00	20.00
* TSB1-04285-XXXX	27.50	22.50
* TSB1-04295-XXXX	27.50	22.50
* TSB1-04195-XXXX		

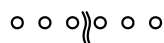
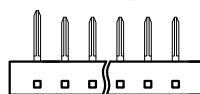
Pin Type Information	Large Pin		Short Pin		Large Pin Site
	Dim.L	Dim.W	Dim.S	Dim.R	
TSB1-04XX5-X1XX	4.20	3.00	3.60	2.40	Position 1
TSB1-04XX5-X2XX	4.20	3.00	3.60	2.40	Position N
TSB1-04XX5-X3XX	4.20	3.00	3.60	2.40	Position 1&N
TSB1-04XX5-X4XX	3.60	2.40			All
TSB1-04XX5-X5XX	4.20	3.00			All
TSB1-04XX5-X6XX	5.20	3.00			All
TSB1-04XX5-X7XX	4.00	2.40			All
TSB1-04XX5-X8XX	5.20	3.00	4.60	2.40	Position 1&N
TSB1-04XX5-X9XX	4.60	2.40	4.00	2.40	Position 1
TSB1-04XX5-XGXX	4.00	2.40	3.20	2.40	Position 1
TSB1-04XX5-XHXX	4.00	2.40	3.20	2.40	Position N
TSB1-04XX5-XJXX	4.00	2.40	3.20	2.40	Position 1&N



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

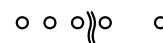
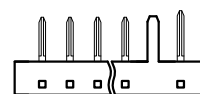
Without Foolproof Pillar

TSB1-040X5-XXXX



Foolproof Pillar on The Right

TSB1-041X5-XXXX



2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-051 $\frac{X}{a} \frac{X}{b} - \frac{XX}{c} \frac{X}{d} \frac{X}{e}$

α =3~9-3~9Pins, A-10Pins, B-11Pins

b =0-Foolproof Pillar on The Position N-1, Dim.D=1.0

1-Foolproof Pillar on The Position N-1, Dim.D=1.5

2-Foolproof Pillar on The Position 2, Dim.D=1.5

4-W/O Foolproof Pillar

c =01-Large Pin on The Position N

02-Large Pin on The Position 1&N

03-Large Pin on The Position 1

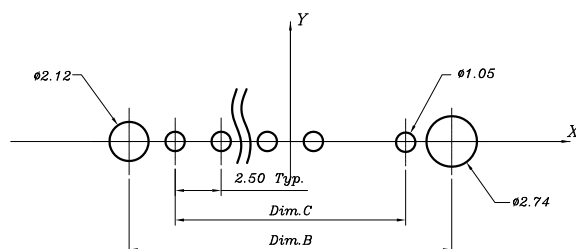
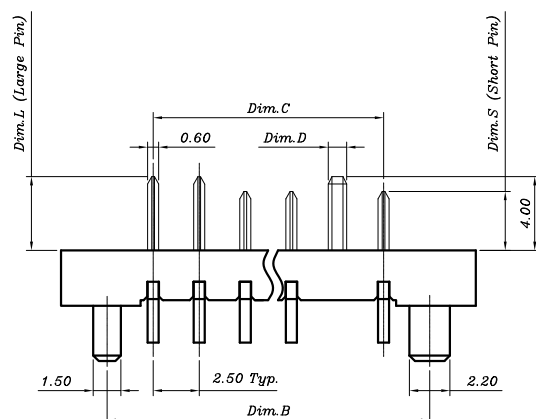
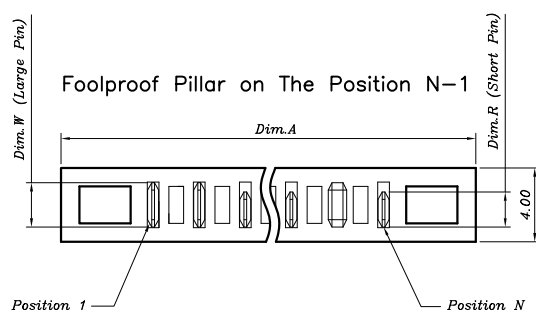
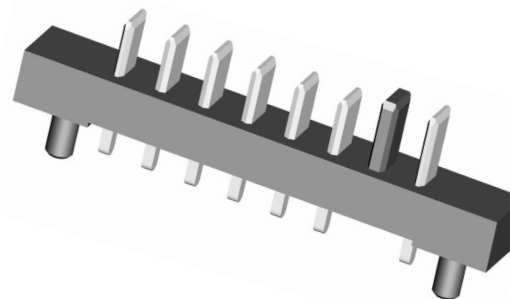
04-All are Large Pin

05-Large Pin on The Position N

10-Large Pin on The Position 1&2

d =Packing Option

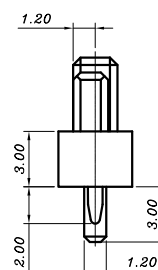
e =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
*TSB1-0513X-XXXX	17.50	12.50	7.50
*TSB1-0514X-XXXX	20.00	15.00	10.00
*TSB1-0515X-XXXX	22.50	17.50	12.50
*TSB1-0516X-XXXX	25.00	20.00	15.00
*TSB1-0517X-XXXX	27.50	22.50	17.50
*TSB1-0518X-XXXX	30.00	25.00	20.00
*TSB1-0519X-XXXX	32.50	27.50	22.50
*TSB1-051AX-XXXX	35.00	30.00	25.00
*TSB1-05144-XXXX	17.50	12.50	7.50
*TSB1-05154-XXXX	20.00	15.00	10.00
*TSB1-05164-XXXX	22.50	17.50	12.50
*TSB1-05174-XXXX	25.00	20.00	15.00
*TSB1-05184-XXXX	27.50	22.50	17.50
*TSB1-05194-XXXX	30.00	25.00	20.00
*TSB1-051A4-XXXX	32.50	27.50	22.50
*TSB1-051B4-XXXX	35.00	30.00	25.00



Pin Type Information	Large Pin		Short Pin	
	Dim.L	Dim.W	Dim.S	Dim.R
TSB1-051XX-01XX	4.00	2.40	3.20	2.40
TSB1-051XX-02XX			4.00	2.40
TSB1-051XX-03XX				
TSB1-051XX-04XX	4.00	2.40	4.00	2.40
TSB1-051XX-05XX	4.60	2.40		
TSB1-051XX-10XX	4.00	2.40		

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-051 $\frac{X}{a} \frac{X}{b} - \frac{XX}{c} \frac{X}{d} \frac{X}{e}$

$a=3\sim 9-3\sim 9$ Pins, A-10 Pins, B-11 Pins

$b=0$ -Foolproof Pillar on The Position N-1, Dim.D=1.0

1-Foolproof Pillar on The Position N-1, Dim.D=1.5

2-Foolproof Pillar on The Position 2, Dim.D=1.5

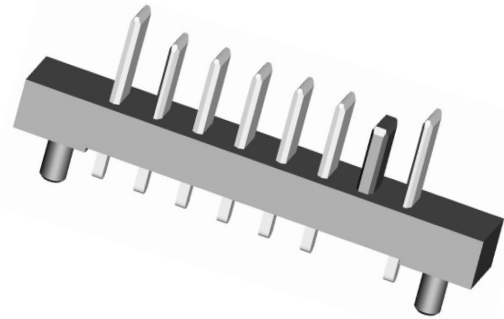
4-W/O Foolproof Pillar

$c=22$ -Large Pin on The Position 1&N (Dim.L=5.4, Dim.S=4.6)

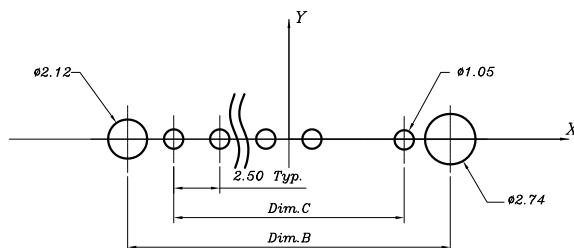
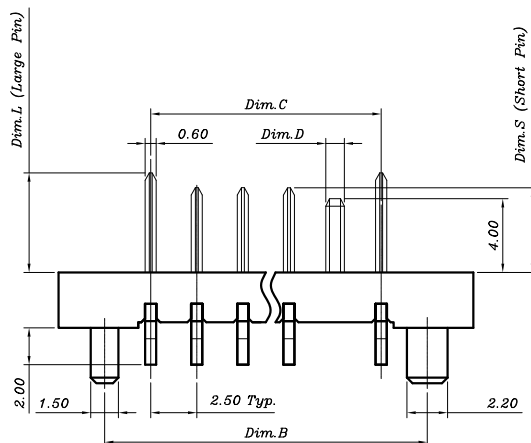
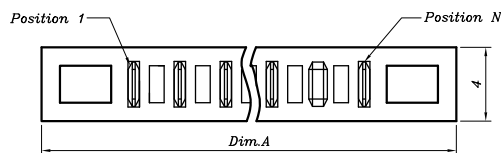
24-Large Pin on The Position 1&N (Dim.L=5.9, Dim.S=5.4)

d =Packing Option

e =Plating Option



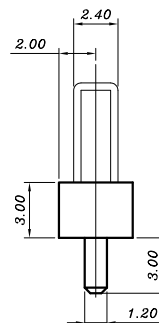
Foolproof Pillar on The Position N-1



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
*TSB1-0513X-XXXX	17.50	12.50	7.50
*TSB1-0514X-XXXX	20.00	15.00	10.00
*TSB1-0515X-XXXX	22.50	17.50	12.50
*TSB1-0516X-XXXX	25.00	20.00	15.00
*TSB1-0517X-XXXX	27.50	22.50	17.50
*TSB1-0518X-XXXX	30.00	25.00	20.00
*TSB1-0519X-XXXX	32.50	27.50	22.50
*TSB1-051AX-XXXX	35.00	30.00	25.00
*TSB1-05144-XXXX	17.50	12.50	7.50
*TSB1-05154-XXXX	20.00	15.00	10.00
*TSB1-05164-XXXX	22.50	17.50	12.50
*TSB1-05174-XXXX	25.00	20.00	15.00
*TSB1-05184-XXXX	27.50	22.50	17.50
*TSB1-05194-XXXX	30.00	25.00	20.00
*TSB1-051A4-XXXX	32.50	27.50	22.50
*TSB1-051B4-XXXX	35.00	30.00	25.00



2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-052 $\frac{X}{a} \frac{X}{b} - \frac{XX}{c} \frac{X}{d} \frac{X}{e} A$

$a=3\sim 9-3\sim 9$ Pins, A-10 Pins

$b=0$ -W/O Foolproof Pillar

1-Dim.D=1.5, Dim.E=5.0

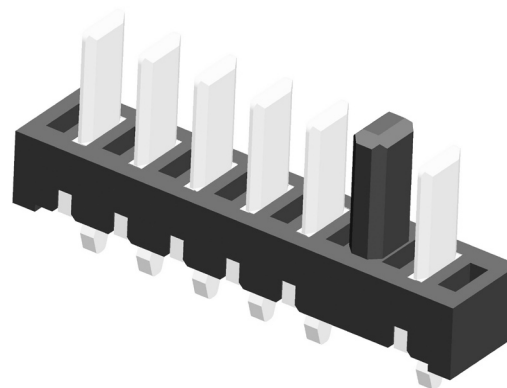
2-Dim.D=1.5, Dim.E=4.0

3-Dim.D=1.0, Dim.E=5.0

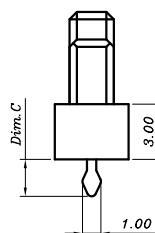
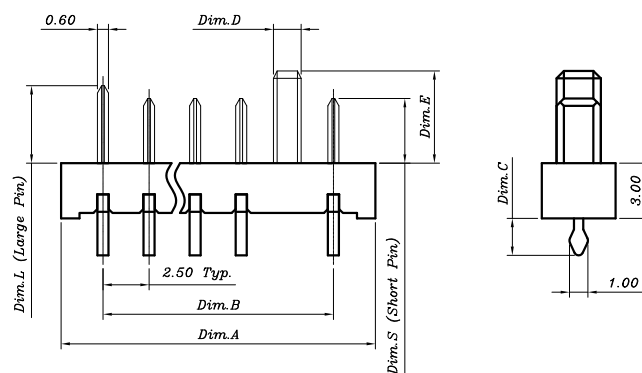
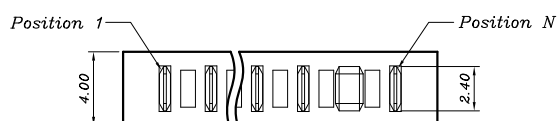
c =See Pin Type Information

d =Packing Option

e =Plating Option



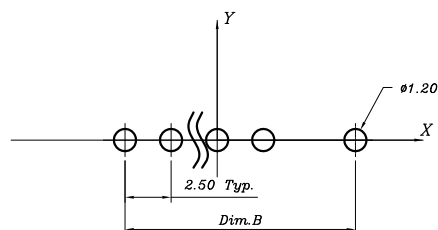
Foolproof Pillar on The Position N-1



Dimension Information :

P/N:	Dim.A	Dim.B
* TSB1-05240-XXXXA	12.05	7.50
* TSB1-0523X-XXXXA		
* TSB1-05250-XXXXA	14.55	10.00
* TSB1-0524X-XXXXA		
* TSB1-05260-XXXXA	17.05	12.50
* TSB1-0525X-XXXXA		
* TSB1-05270-XXXXA	19.55	15.00
* TSB1-0526X-XXXXA		
* TSB1-05280-XXXXA	22.05	17.50
* TSB1-0527X-XXXXA		
* TSB1-05290-XXXXA	24.55	20.00
* TSB1-0528X-XXXXA		
* TSB1-052A0-XXXXA	27.05	22.50
* TSB1-0529X-XXXXA		

Pin Type Information	Dim.L	Dim.S	Dim.C	Large Pin Site
TSB1-052XX-01XXA				Position 1
TSB1-052XX-02XXA	4.20	3.50	2.00	Position 1&N
TSB1-052XX-03XXA				Position N
TSB1-052XX-04XXA	4.20		2.00	All
TSB1-052XX-05XXA	3.50		2.00	All
TSB1-052XX-06XXA	5.40	4.60	2.00	Position 1
TSB1-052XX-08XXA	5.40	4.60	2.00	Position N
TSB1-052XX-0AXXA	4.60		2.00	All
TSB1-052XX-0BXXA	5.40		2.00	All
TSB1-052XX-0CXXA	6.00		2.40	All
TSB1-052XX-0FXXA	5.40	4.20	2.00	Position 1
TSB1-052XX-0HXXA	5.90	5.40	2.00	Position 1
TSB1-052XX-0JXXA	5.90	5.40	2.00	Position N
TSB1-052XX-0KXXA	5.90		2.00	All



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-052 $\frac{X}{a}$ 0 - $\frac{XX}{b}$ $\frac{X}{c}$ $\frac{X}{d}$ A

a =4~8-4~8Pins

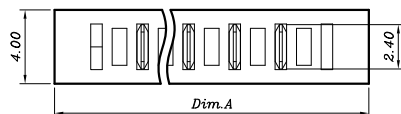
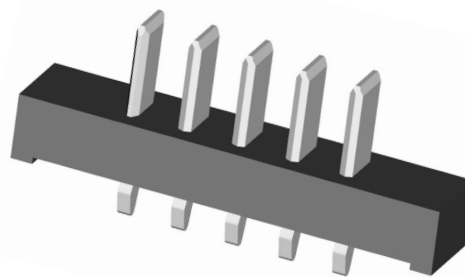
b =07-Dim.C=4.2

0D-Dim.C=3.5

0E-Dim.C=5.4

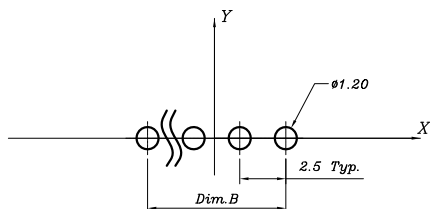
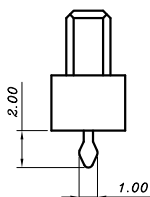
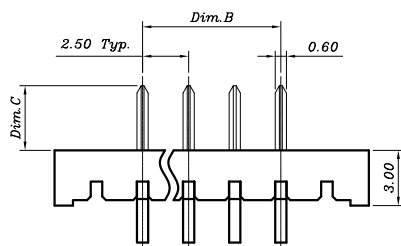
c =Packing Option

d =Plating Option



Dimension Information :

* P/N:	Dim.A	Dim.B
* TSB1-05240-XXXXA	17.05	7.50
* TSB1-05250-XXXXA	19.55	10.00
* TSB1-05260-XXXXA	22.05	12.50
* TSB1-05270-XXXXA	24.55	15.00
* TSB1-05280-XXXXA	27.05	17.50



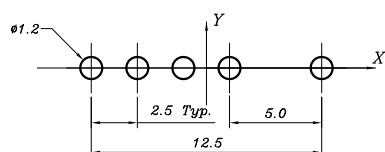
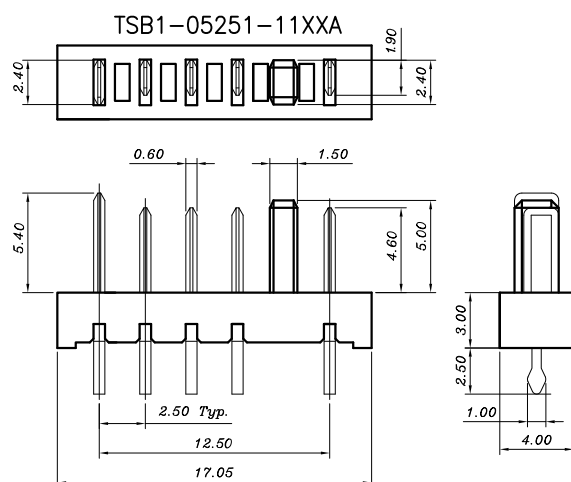
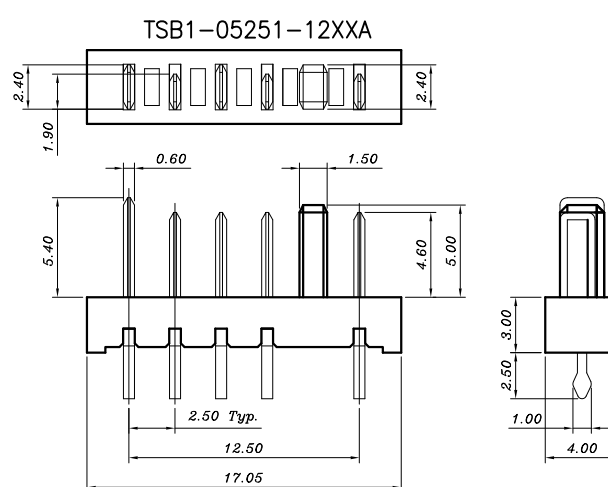
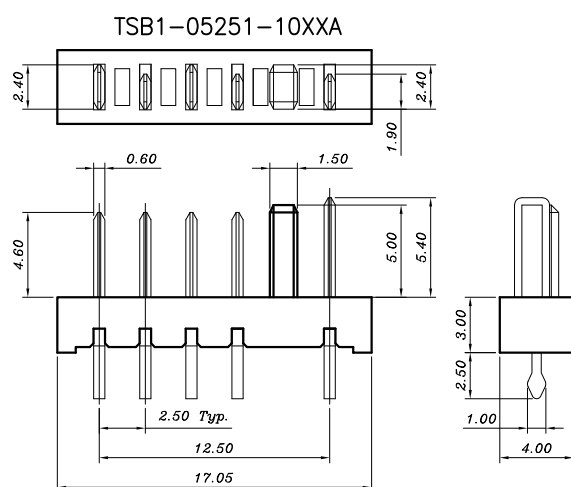
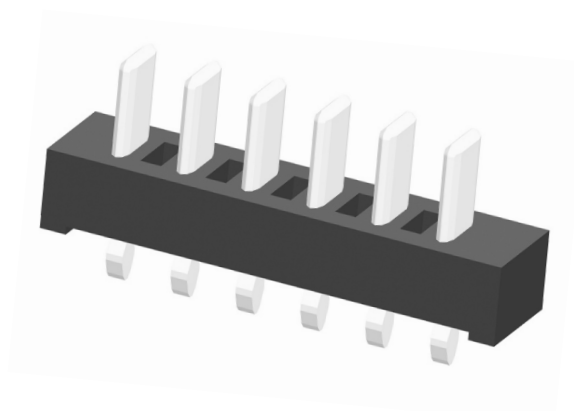
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-05251 - 1 $\frac{X}{a}$ $\frac{X}{b}$ $\frac{X}{c}$ A

a =0-Type 0
1-Type 1
2-Type 2
 b =Packing Option
 c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-080 $\frac{X}{a} \frac{X}{b} - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=3\sim 8-3\sim 8$ Pins

$b=7$ -All are Short Pin (Dim.L=3.8)

8-Large Pin on The Position 1&N (Dim.L=4.8)

9-All are Large Pin (Dim.L=6.0)

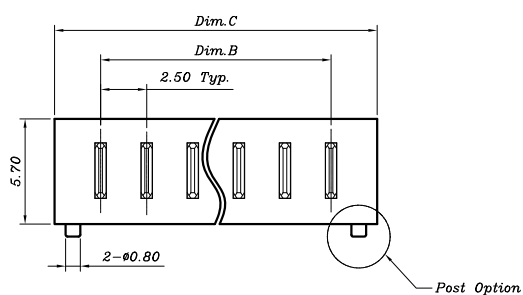
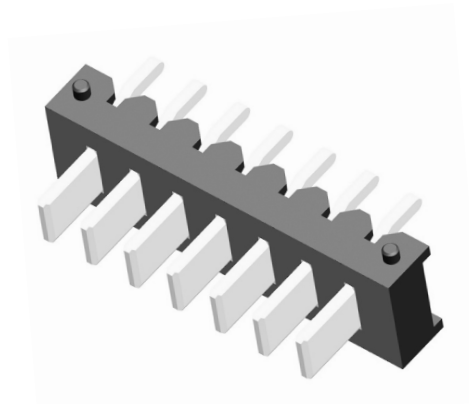
A-All are Large Pin (Dim.L=4.8)

$c=0$ -W/O Post

1-With Post

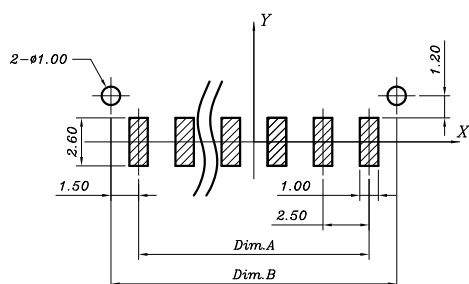
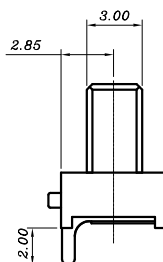
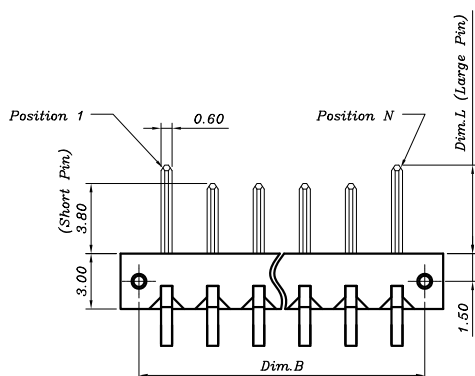
d =Packing Option

e =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
TSB1-0803X-0XXX	5.00	8.00	10.00
TSB1-0804X-0XXX	7.50	10.50	12.00
TSB1-0805X-0XXX	10.00	13.00	15.00
TSB1-0806X-0XXX	12.50	15.50	17.50
TSB1-0807X-0XXX	15.00	18.00	20.00
TSB1-0808X-0XXX	17.50	20.50	22.50



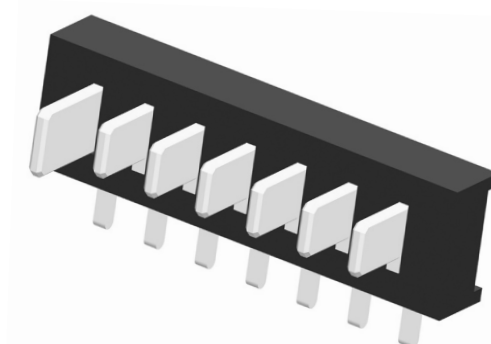
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

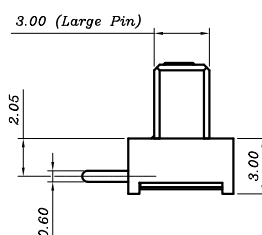
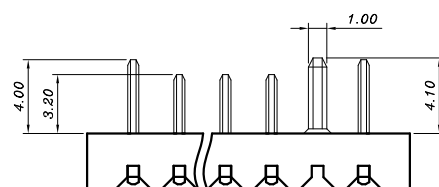
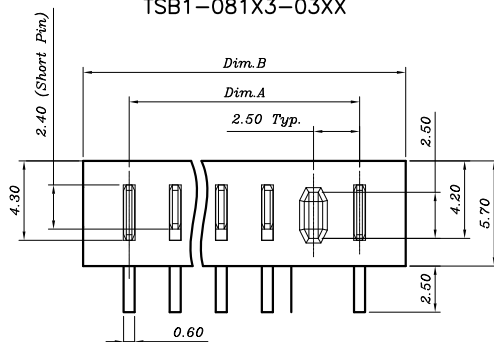
ORDER INFORMATION

TSB1-08 $\frac{X}{a} \frac{X}{b} 3 - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e}$

a =0-Without Foolproof Pillar
 1-Foolproof Pillar on The Right
 2-Foolproof Pillar on The Left
 b =3~9-3~9Pins , A-10Pins
 c =Type Option
 d =Packing Option
 e =Plating Option



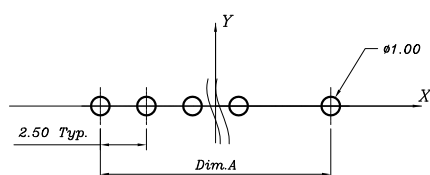
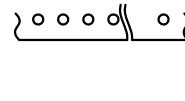
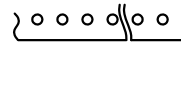
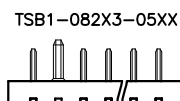
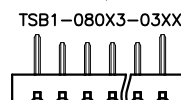
Foolproof Pillar on The Right
 TSB1-081X3-03XX



Dimension Information :

P/N:	Dim.A	Dim.B
* TSB1-08043-0XXX	7.50	12.50
* TSB1-08053-0XXX	10.00	15.00
* TSB1-08063-0XXX	12.50	17.50
* TSB1-08073-0XXX	15.00	20.00
* TSB1-08083-0XXX	17.50	22.50
* TSB1-08093-0XXX	20.00	25.00
* TSB1-080A3-0XXX	22.50	27.50
* TSB1-08133-0XXX	7.50	12.50
* TSB1-08233-0XXX	10.00	15.00
* TSB1-08143-0XXX	10.00	15.00
* TSB1-08243-0XXX	12.50	17.50
* TSB1-08153-0XXX	12.50	17.50
* TSB1-08253-0XXX	15.00	20.00
* TSB1-08163-0XXX	15.00	20.00
* TSB1-08263-0XXX	17.50	22.50
* TSB1-08173-0XXX	17.50	22.50
* TSB1-08273-0XXX	20.00	25.00
* TSB1-08183-0XXX	20.00	25.00
* TSB1-08283-0XXX	22.50	27.50
* TSB1-08193-0XXX	22.50	27.50
* TSB1-08293-0XXX		

Foolproof Pillar on The Left Without Foolproof Pillar Foolproof Pillar on The Right



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-09 $\frac{X}{a} \frac{X}{b} 2 - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=0$ —Without Foolproof Pillar

1—Foolproof Pillar on The Right

2—Foolproof Pillar on The Left

$b=4\sim 9$ —4~9Pins , A—10Pins

$c=1$ —Large Pin on The Position 1

2—Large Pin on The Position N

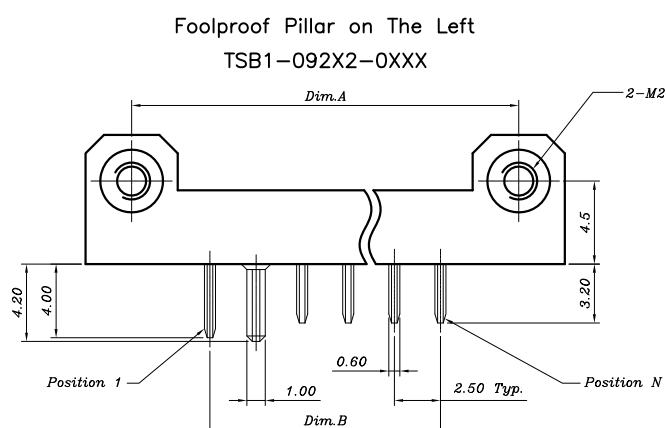
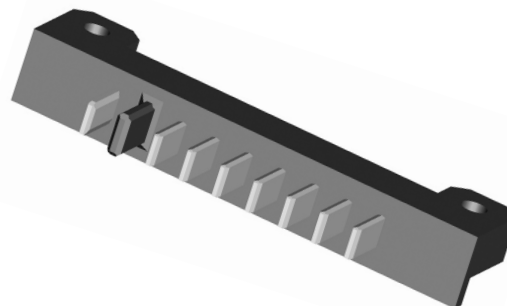
3—Large Pin on The Position 1&N

4—All are Short Pin

5—All are Large Pin

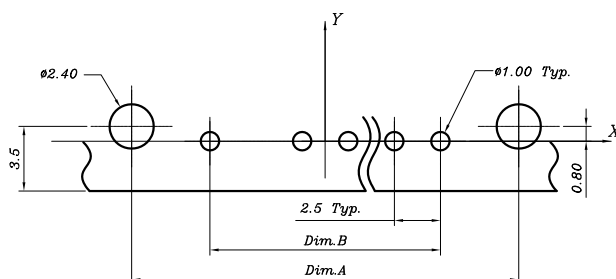
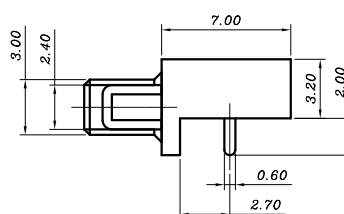
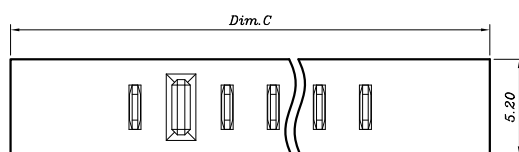
d =Packing Option

e =Plating Option

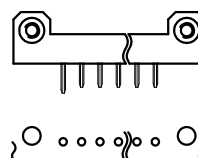


Dimension Information :

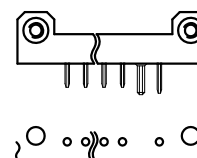
P/N:	Dim.A	Dim.B	Dim.C
TSB1-09052-0XXX	18.50	10.00	23.50
TSB1-09062-0XXX	21.00	12.50	26.00
TSB1-09072-0XXX	23.50	15.00	28.50
TSB1-09082-0XXX	26.00	17.50	31.00
TSB1-09092-0XXX	28.50	20.00	33.50
TSB1-090A2-0XXX	31.00	22.50	36.00
TSB1-09142-0XXX	18.50	10.00	23.50
TSB1-09242-0XXX	21.00	12.50	26.00
TSB1-09152-0XXX	21.00	12.50	26.00
TSB1-09252-0XXX	21.00	12.50	26.00
TSB1-09162-0XXX	23.50	15.00	28.50
TSB1-09262-0XXX	23.50	15.00	28.50
TSB1-09172-0XXX	26.00	17.50	31.00
TSB1-09272-0XXX	26.00	17.50	31.00
* TSB1-09182-0XXX	28.50	20.00	33.50
* TSB1-09282-0XXX	28.50	20.00	33.50
TSB1-09192-0XXX	31.00	22.50	36.00
TSB1-09292-0XXX	31.00	22.50	36.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm



Without Foolproof Pillar
TSB1-090X2-0XXX



Foolproof Pillar on The Right
TSB1-091X2-0XXX

2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-10 $\frac{X}{a} \frac{X}{b} 4 - 0 \frac{X}{c} \frac{X}{d} \frac{X}{e}$

$a=0$ —Without Foolproof Pillar

1—Foolproof Pillar on The Right

2—Foolproof Pillar on The Left

$b=3\sim 9$ —3~9Pins, A—10Pins

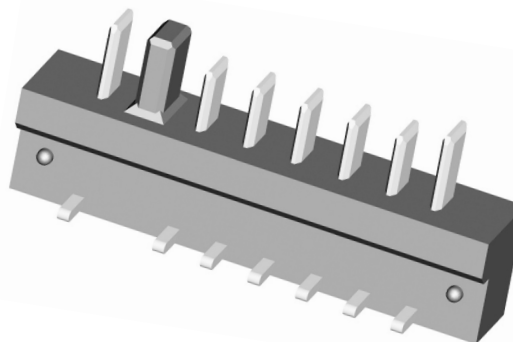
$c=1$ —Large Pin on The Position 1

2—Large Pin on The Position N

3—Large Pin on The Position 1&N

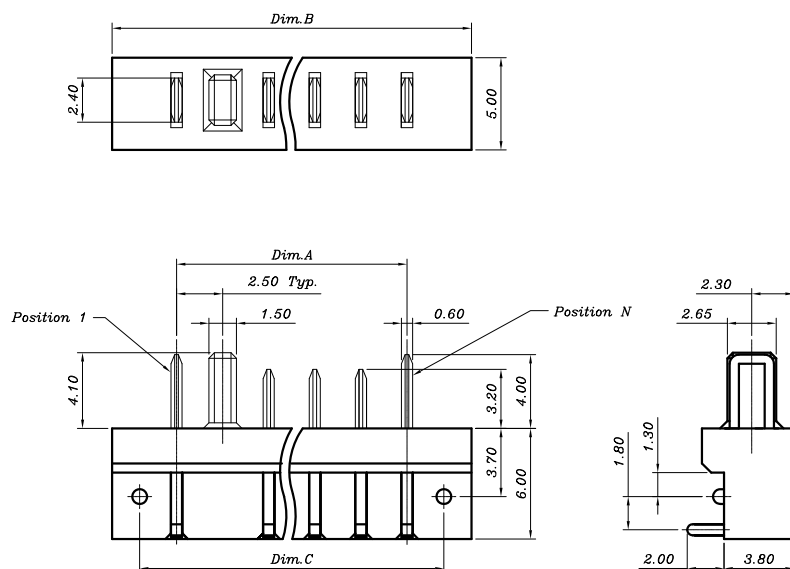
d =Packing Option

e =Plating Option



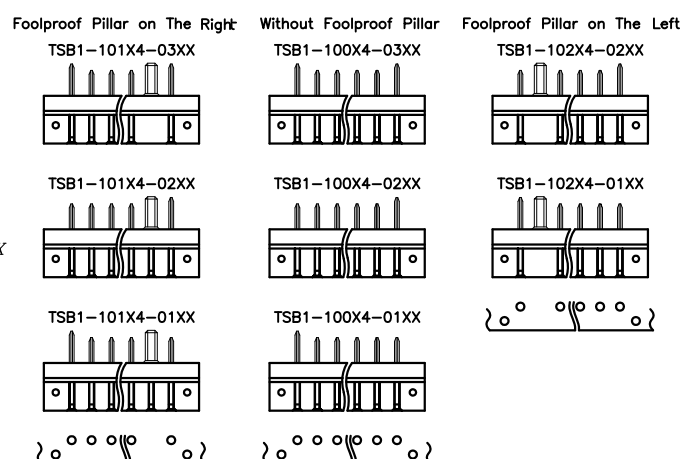
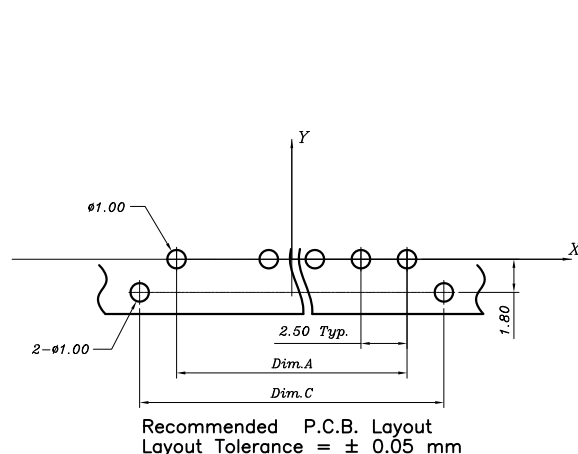
Foolproof Pillar on The Left

TSB1-102X4-03XX



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C
* TSB1-10044-0XXX	7.50	14.50	11.50
* TSB1-10054-0XXX	10.00	17.00	14.00
* TSB1-10064-0XXX	12.50	19.50	16.50
* TSB1-10074-0XXX	15.00	32.00	19.00
* TSB1-10084-0XXX	17.50	34.50	21.50
* TSB1-10094-0XXX	20.00	37.00	24.00
* TSB1-100A4-0XXX	22.50	39.50	26.50
* TSB1-10134-0XXX	7.50	14.50	11.50
* TSB1-10234-0XXX	10.00	17.00	14.00
* TSB1-10144-0XXX	12.50	19.50	16.50
* TSB1-10244-0XXX	15.00	22.00	19.00
* TSB1-10154-0XXX	17.50	24.50	21.50
* TSB1-10164-0XXX	20.00	27.00	24.00
* TSB1-10174-0XXX	22.50	29.50	26.50
* TSB1-10274-0XXX	22.50	29.50	26.50
* TSB1-10184-0XXX	22.50	29.50	26.50
* TSB1-10284-0XXX	22.50	29.50	26.50
* TSB1-10194-0XXX	22.50	29.50	26.50
* TSB1-10294-0XXX	22.50	29.50	26.50



2.5mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSB1-150 $\frac{X}{a}$ A - 0 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$

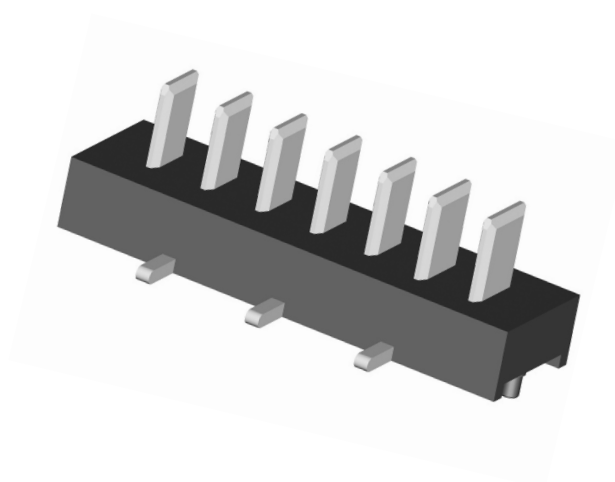
α =7-7Pins

b =0-Type 0

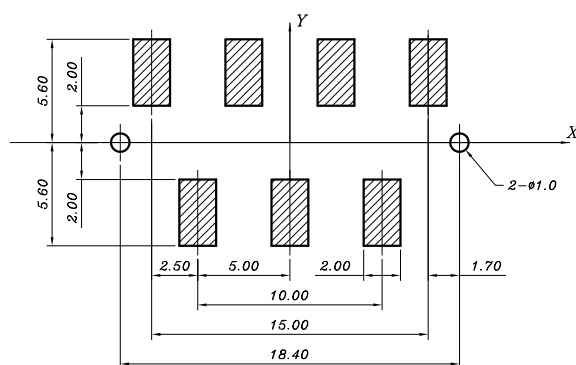
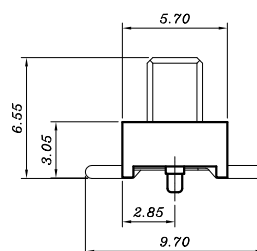
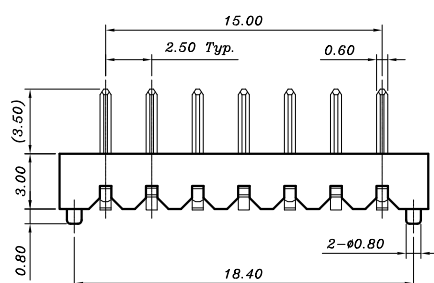
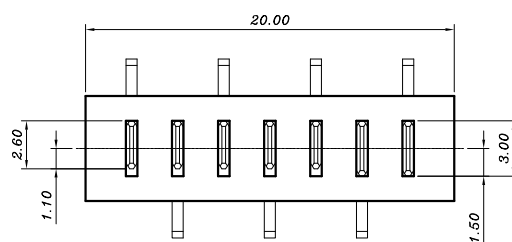
1-Type 1

c =Packing Option

d =Plating Option

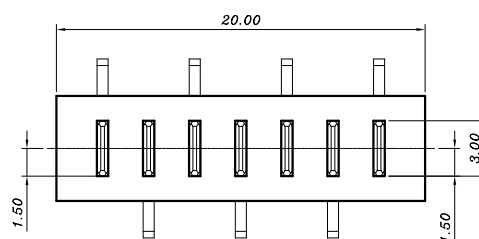


TSB1-1507A-01XX



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

TSB1-1507A-00XX



5.0mm BATTERY CONNECTOR, FEMALE

ORDER INFORMATION

TSD0-021 $\frac{05}{a}$ - 1 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$ A

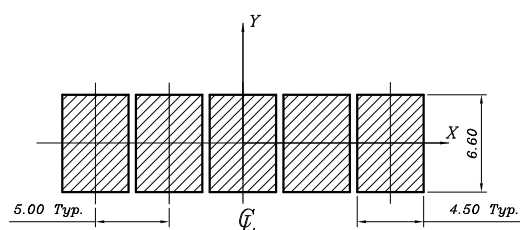
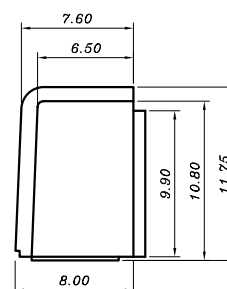
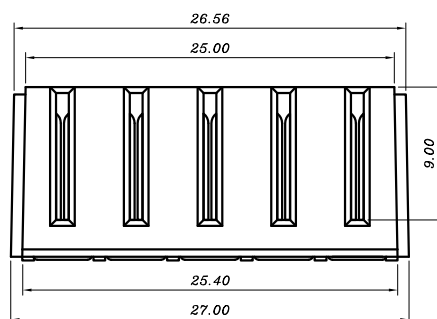
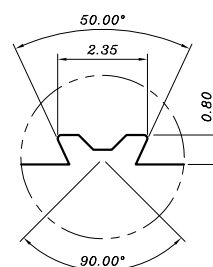
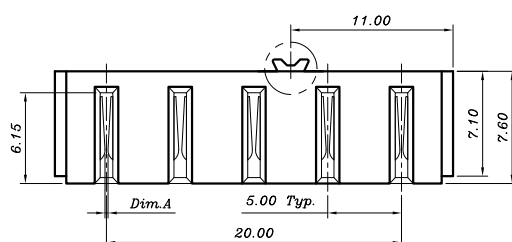
$a=05$ —5Pins

$b=0$ —Dim.A=0.25

1—Dim.A=0.10

c =Packing Option

d =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

5.0mm BATTERY CONNECTOR, FEMALE

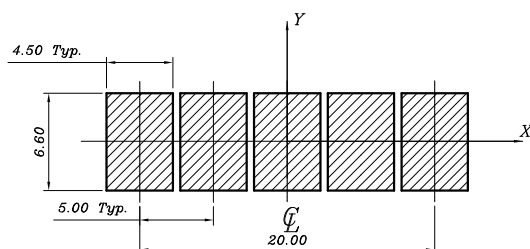
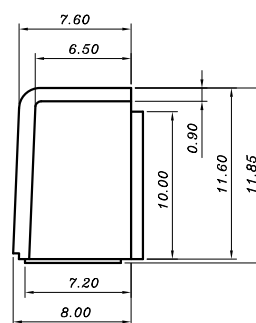
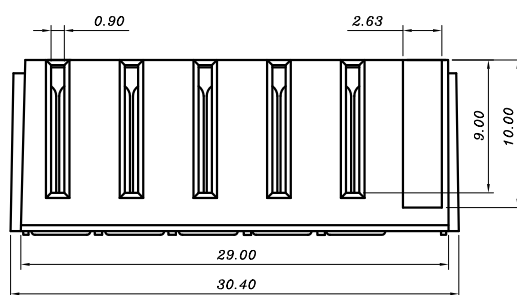
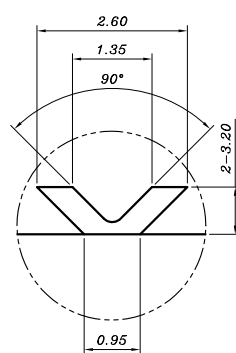
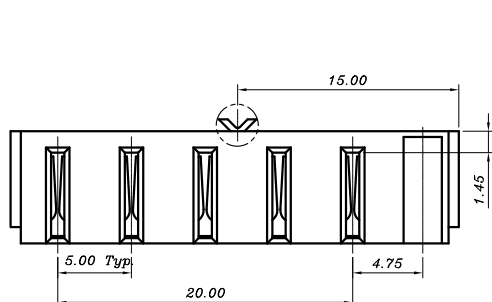
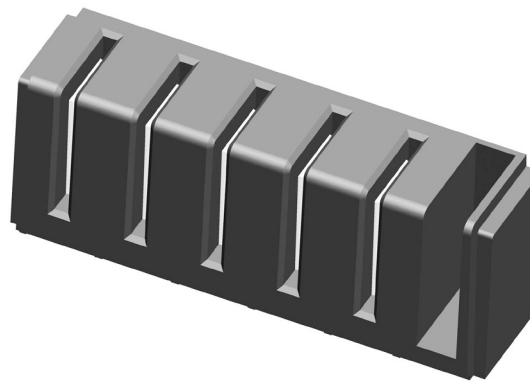
ORDER INFORMATION

TSD0-025 $\frac{05}{a}$ - 10 $\frac{X}{b}$ $\frac{X}{c}$ A

$a=05$ —5Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

5.0mm BATTERY CONNECTOR, MALE

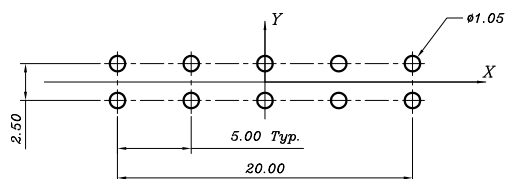
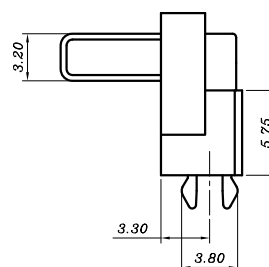
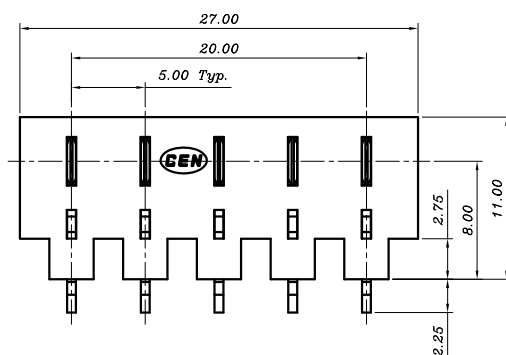
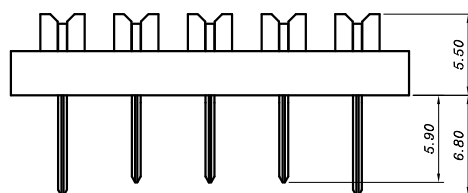
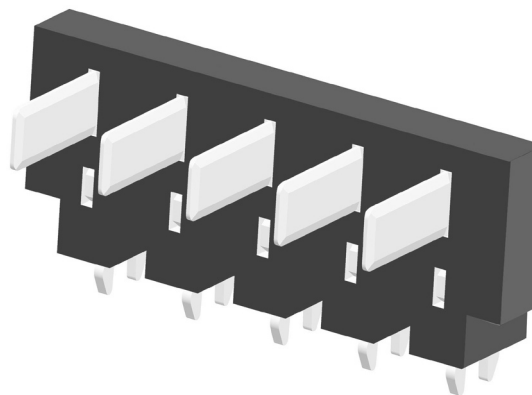
ORDER INFORMATION

TSD1-012 $\frac{05}{a}$ - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =05-5Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

5.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSD1-013 $\frac{05}{a}$ - $\frac{X}{b}$ 0 $\frac{X}{c}$ $\frac{X}{d}$ A

a =05-5Pins

b =0-All are Large Pin

1-Large Pin on The Position 5

2-Large Pin on The Position 1

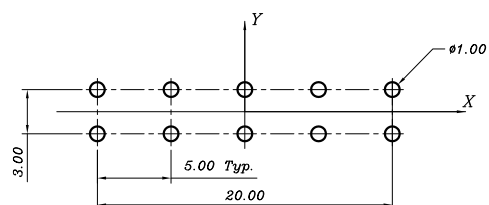
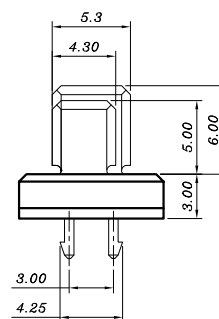
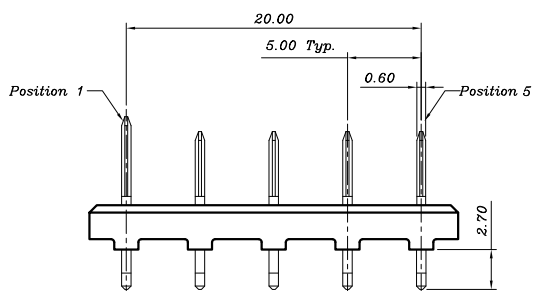
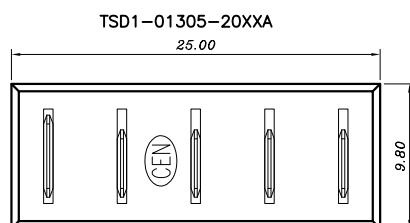
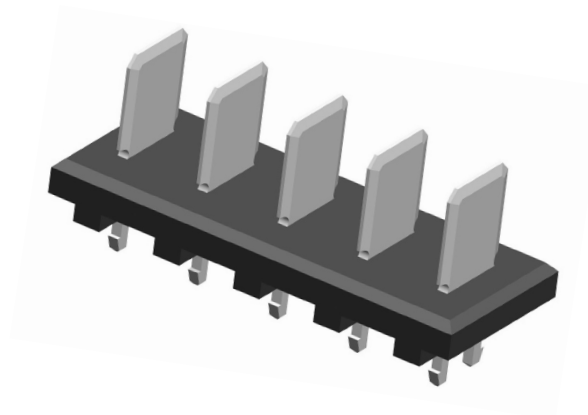
3-Large Pin on The Position 1&5

4-Large Pin on The Position 4&5

5-Large Pin on The Position 1&2

c =Packing Option

d =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

5.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSD1-014 $\frac{05}{a} - 0 \frac{X}{b} \frac{X}{c} \frac{X}{d}$

a =05-5Pins

b =0-All are Large Pin

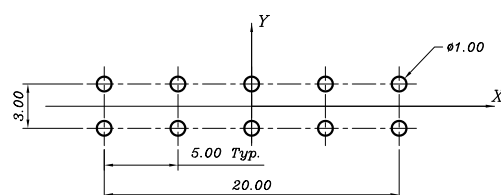
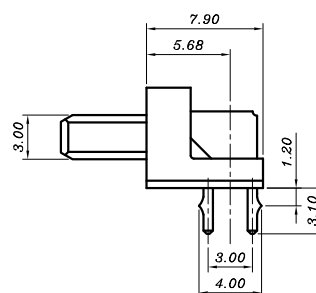
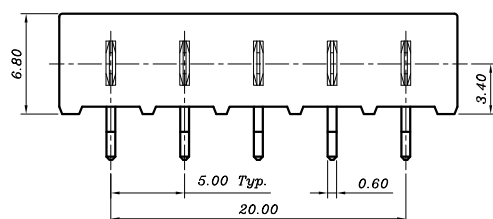
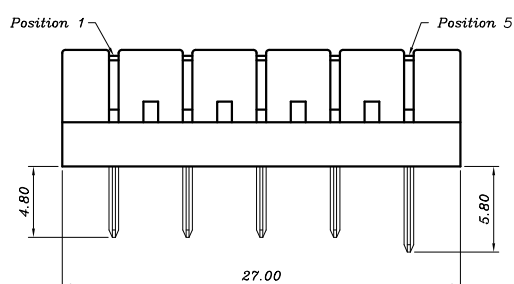
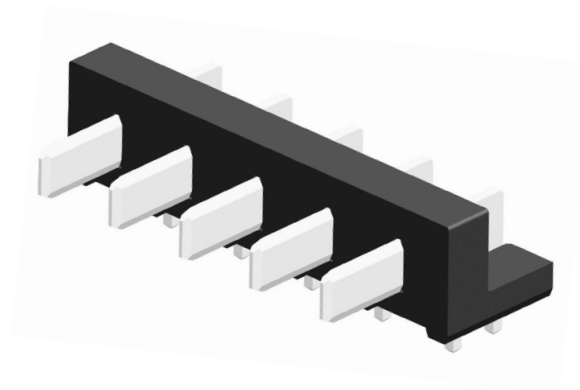
1-Large Pin on The Position 5

2-Large Pin on The Position 1

3-Large Pin on The Position 1&5

c =Packing Option

d =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

5.0mm BATTERY CONNECTOR, MALE

ORDER INFORMATION

TSD1-015 $\frac{05}{a}$ - 0 $\frac{X}{b}$ $\frac{X}{c}$ $\frac{X}{d}$

a =05-5Pins

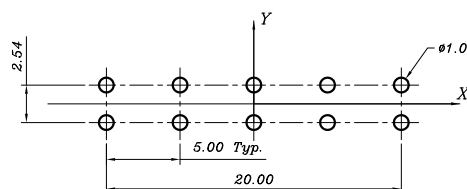
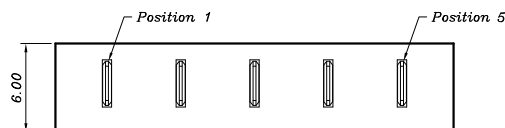
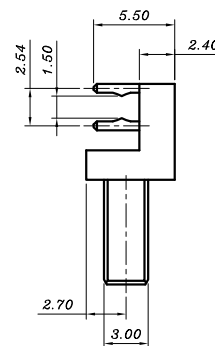
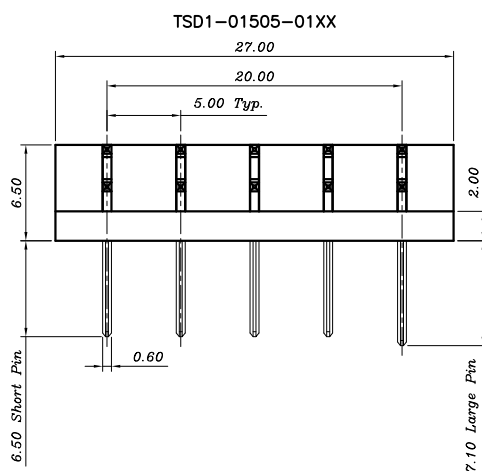
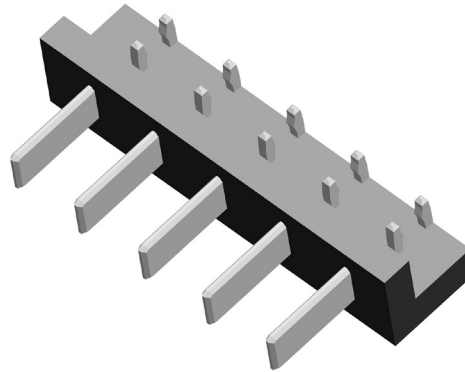
b =0-All are Short Pin

1-Large Pin on The Position 5

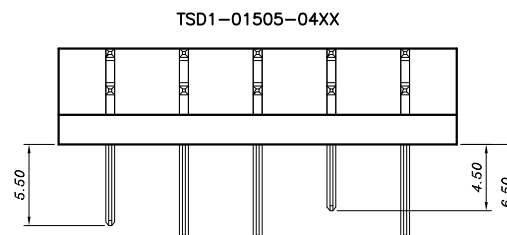
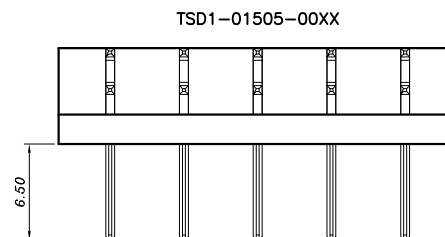
4-Special Option

c =Packing Option

d =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm



2.0mm PLANE PIN CONNECTOR

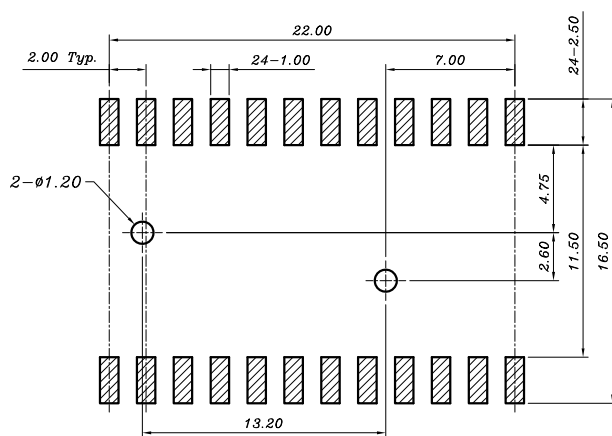
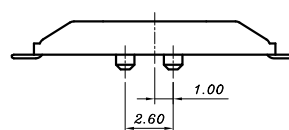
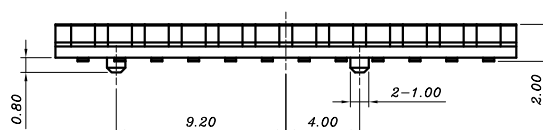
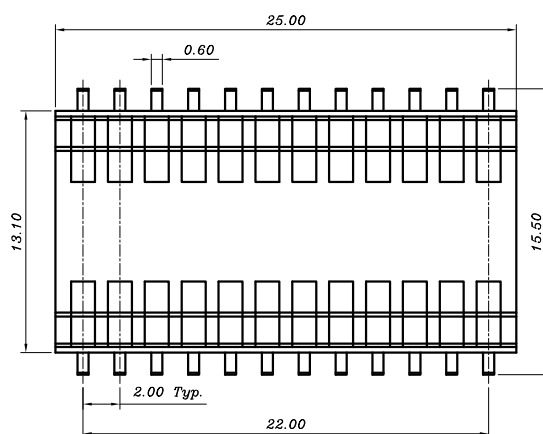
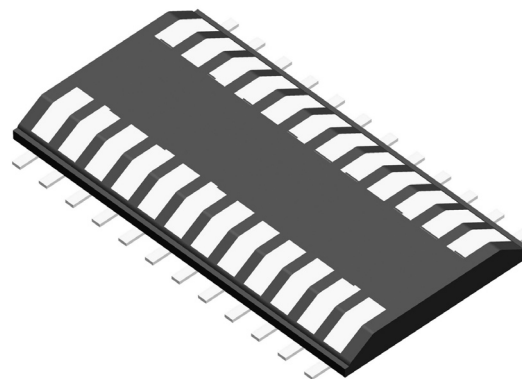
ORDER INFORMATION

TBA0-01100 - $\frac{24}{a} \frac{X}{b} \frac{X}{c}$

a =24-24Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5 mm PLANE PIN I/O CONNECTOR

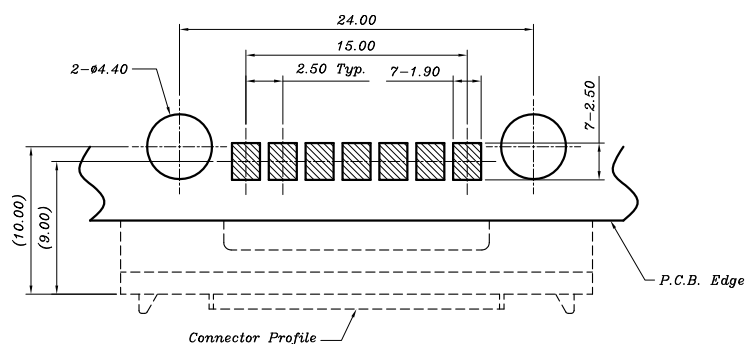
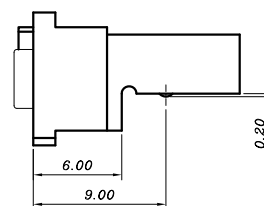
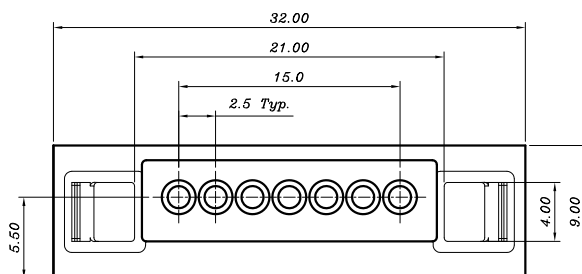
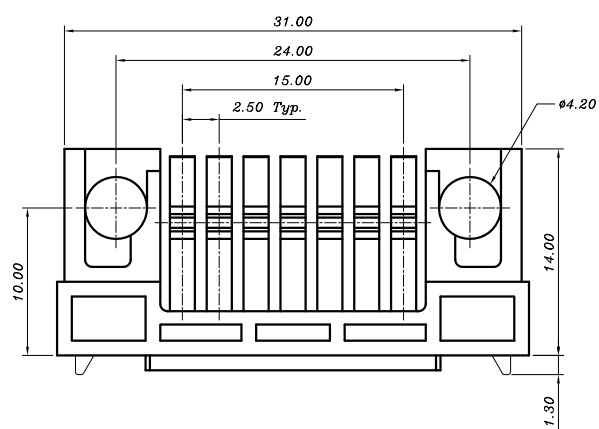
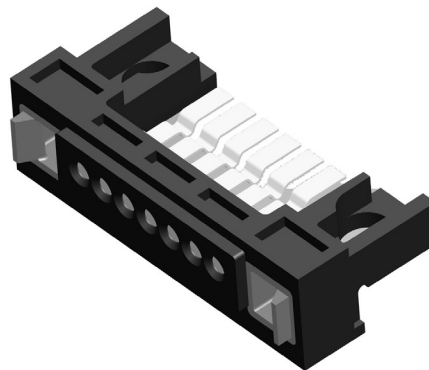
ORDER INFORMATION

TPB0-012 $\frac{7}{a}$ 1 - 00 $\frac{X}{b}$ $\frac{X}{c}$

$a=7-7$ Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.54mm PLANE PIN CONNECTOR

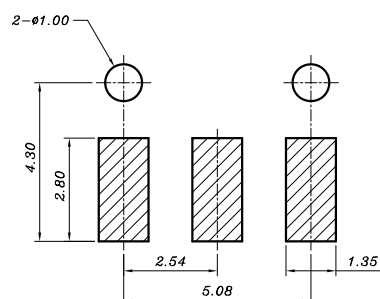
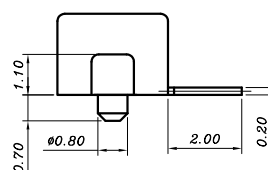
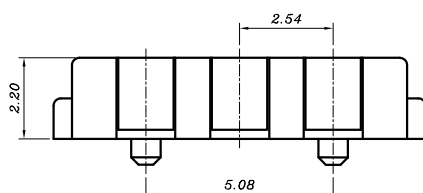
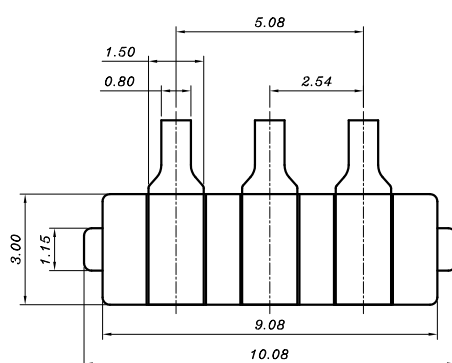
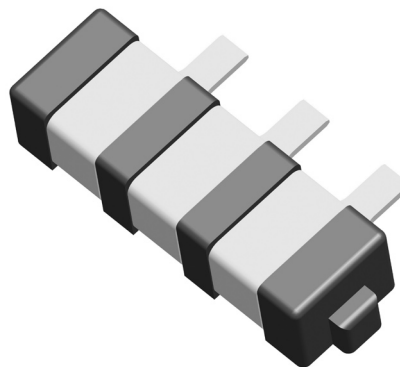
ORDER INFORMATION

TSE0-012 $\frac{3}{a}$ 0 - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =3-3Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.54mm PLANE PIN CONNECTOR

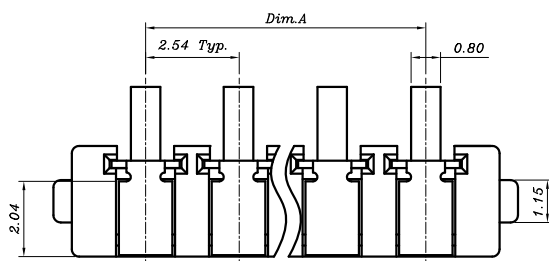
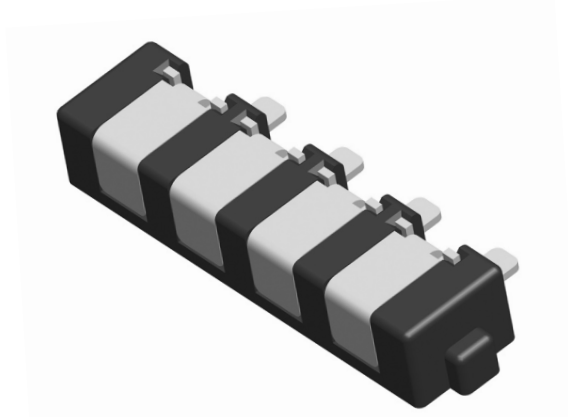
ORDER INFORMATION

TSE0-015 $\frac{X}{a}$ 0 - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =3~9-3~9Pins

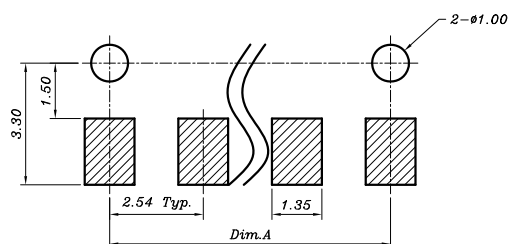
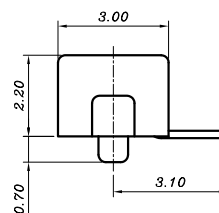
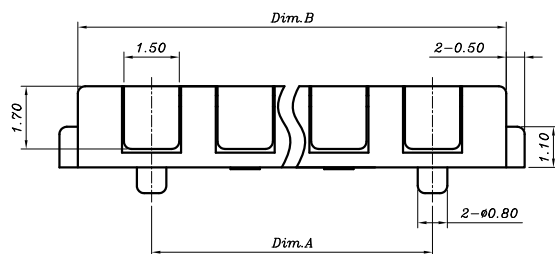
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B
TSE0-01530-00XX	5.08	9.08
TSE0-01540-00XX	7.62	11.62
TSE0-01550-00XX	10.16	14.16
TSE0-01560-00XX	12.70	16.70
TSE0-01570-00XX	15.24	19.24
TSE0-01580-00XX	17.78	21.78
TSE0-01590-00XX	20.32	24.32



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.54mm PLANE PIN LOCK BOARD CONNECTOR

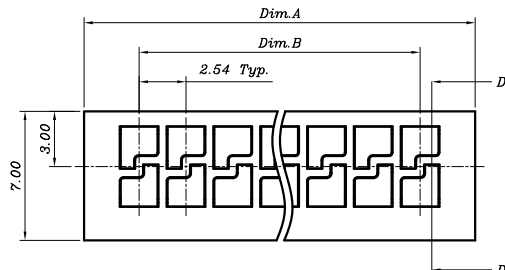
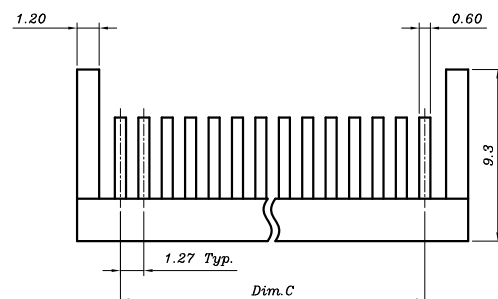
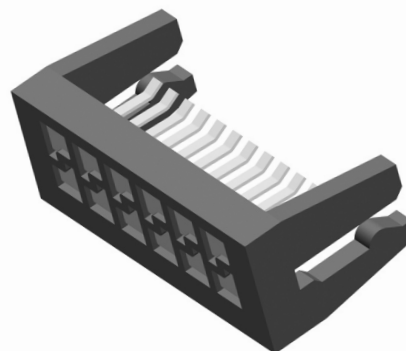
ORDER INFORMATION

TSF0-01100 - $\frac{XX}{a} \frac{X}{b} \frac{X}{c}$

a=12~32-12~32Pins

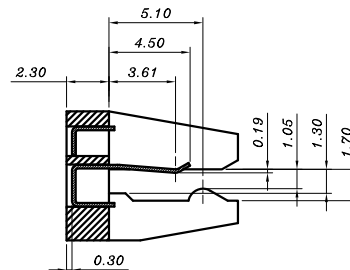
b=Packing Option

c=Plating Option

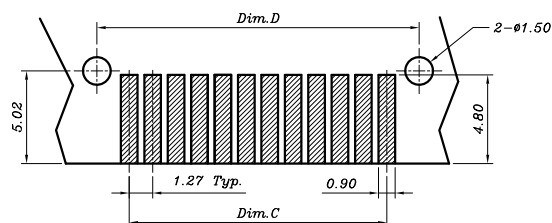


Dimension Information :

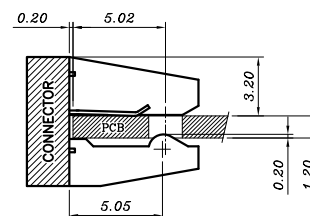
P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
TSF0-01100-12XX	18.68	12.70	13.97	17.48	19.38
TSF0-01100-14XX	21.22	15.24	16.51	20.02	21.92
TSF0-01100-16XX	23.76	17.78	19.05	22.56	24.46
TSF0-01100-18XX	26.30	20.32	21.59	25.10	27.00
TSF0-01100-22XX	31.38	25.40	26.67	30.18	32.08
TSF0-01100-28XX	39.00	33.02	34.29	37.80	39.70
TSF0-01100-32XX	44.08	38.10	39.37	42.88	44.78



Section D-D



Recommended P.C.B. Layout (T=1.20mm)
Layout Tolerance = ± 0.05 mm



With T=1.20mm P.C.B.

2.54mm PLANE PIN LOCK BOARD CONNECTOR

ORDER INFORMATION

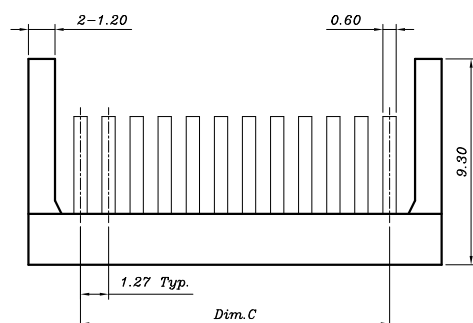
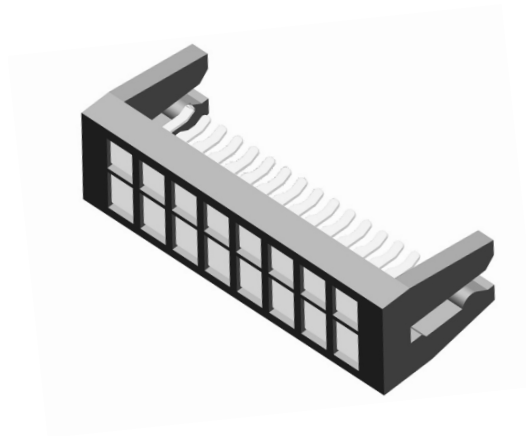
TSF0-02100 - $\frac{XX}{a} \frac{X}{b} \frac{X}{c}$

a =12-12Pins

18-18Pins

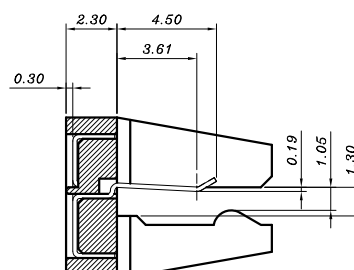
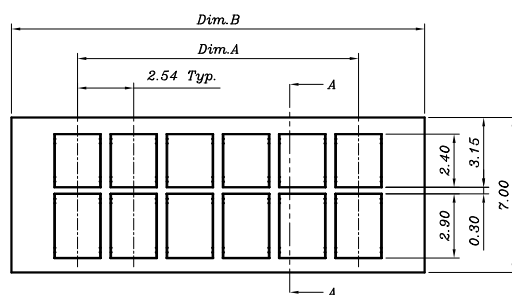
b =Packing Option

c =Plating Option

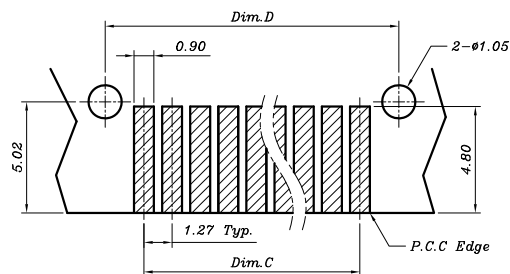


Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D
TSF0-02100-12XX	12.70	18.68	13.97	17.48
TSF0-02100-18XX	20.32	26.30	21.59	25.10



Section A-A



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

3.0mm PLANE PIN CONNECTOR

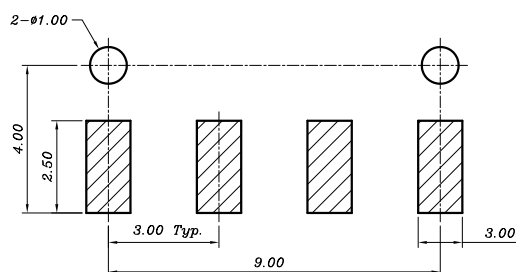
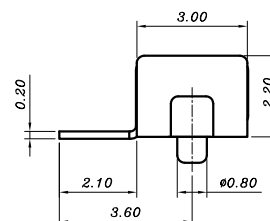
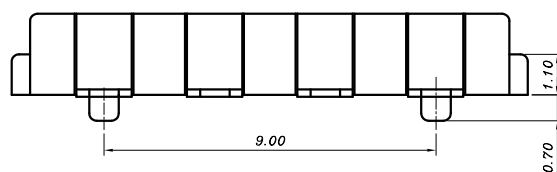
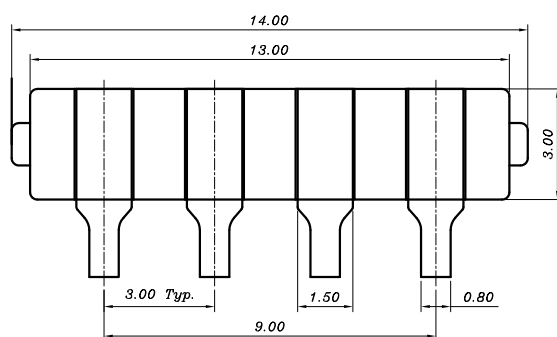
ORDER INFORMATION

TSR0-01100 - $\frac{04}{a} \frac{X}{b} \frac{X}{c}$

a =04-4Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

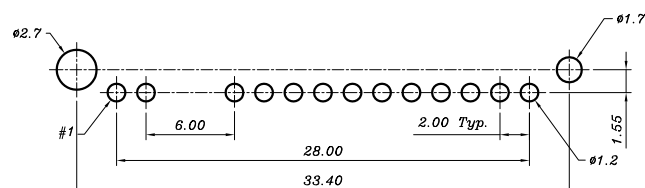
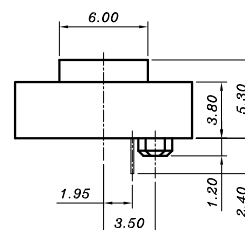
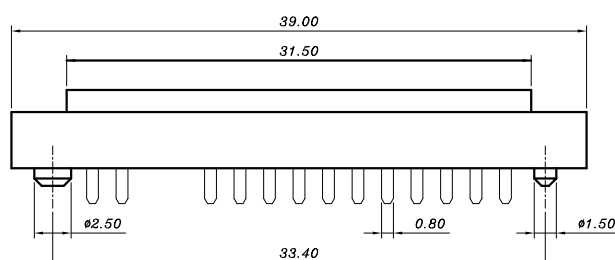
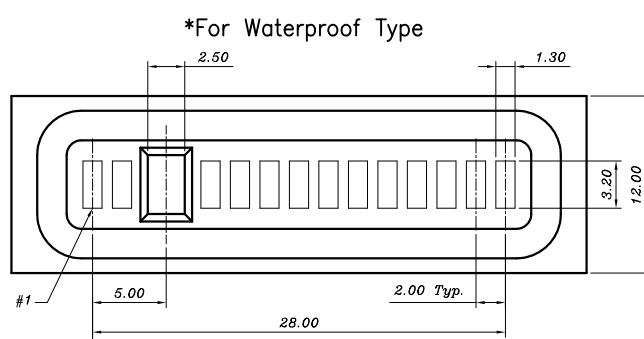
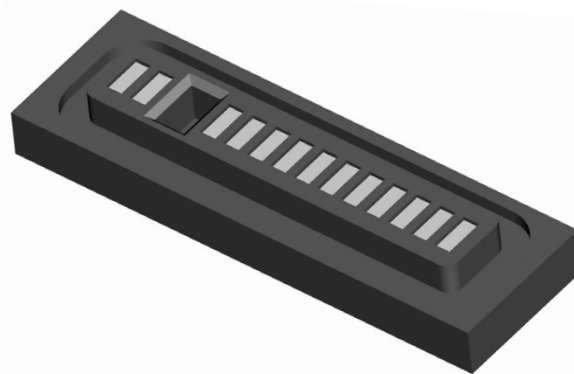
2.0mm PLANE PIN CONNECTOR

ORDER INFORMATION

TSA0-05100 - 00 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm POGO PIN CONNECTOR

ORDER INFORMATION

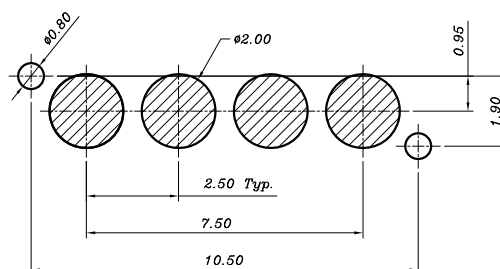
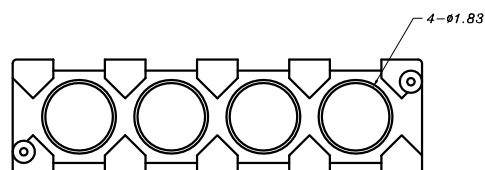
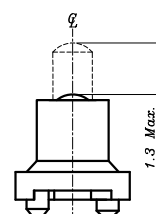
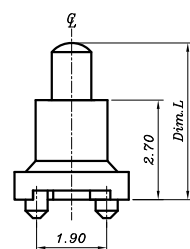
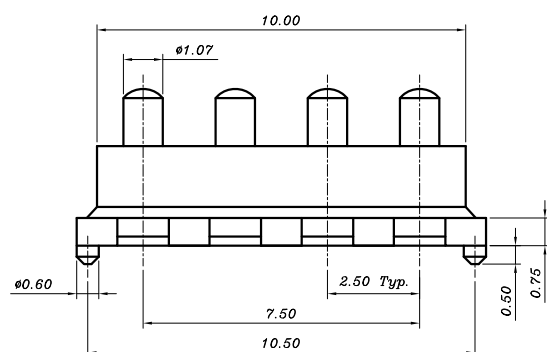
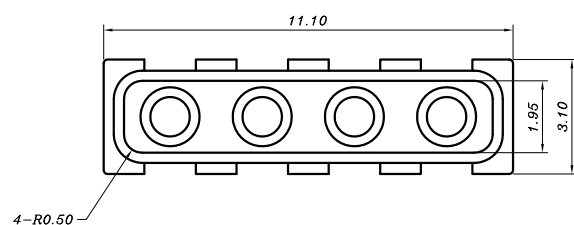
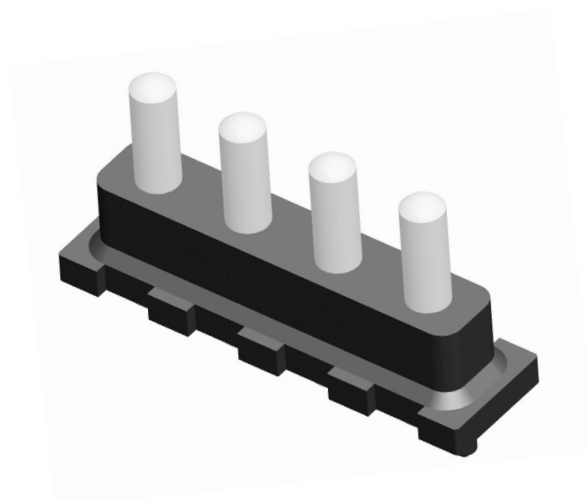
TPB1-0114 $\frac{X}{a} - \frac{X}{b} 2 \frac{X}{c} \frac{X}{d}$

a =Pin Height Dim.L 2-4.25mm; 3-4.5mm; 4-5.0mm
5-5.5mm

b =Cap Option 0-With Cap
1-Without Cap

c =Packing Option

d =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.54mm POGO PIN CONNECTOR SINGLE ROW

ORDER INFORMATION

TPE1-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c}$ - 02 $\frac{X}{d} \frac{X}{e}$

a=Single Row

b=Amount of Pins 2Pins ~ 16Pins

c=Pin Height Dim.L
 1-3.5mm; 2-4.25mm; 3-4.5mm
 4-5.0mm; 5-5.5mm; 6-6.0mm
 7-6.5mm; 8-7.0mm; 9-7.5mm
 A-8.2mm

d=Packing Option

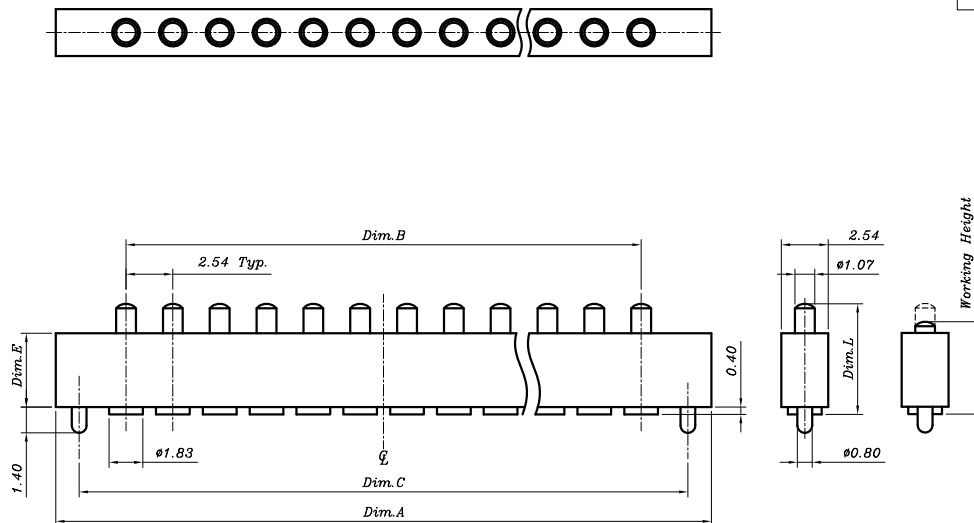
e=Plating Option



Dimension Information :

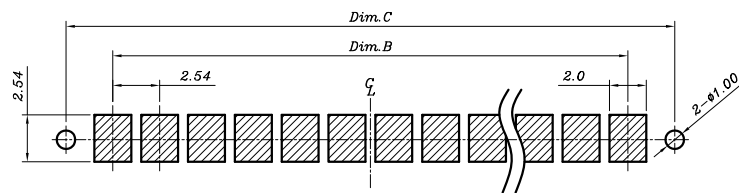
Pin Height	Working Height
3.5mm	Dim.L-0.4mm
4.25mm~7.5mm	Dim.L-0.7mm
8.2mm	Dim.L-1.0mm

Pin Height	Dim.	Dim.E
3.5mm~7.5mm	2.00	
4.25mm~7.5mm	2.80	
4.25mm~7.5mm	2.95	
6.0mm~8.2mm	4.00	
6.0mm~8.2mm	4.50	
6.5mm~7.5mm	4.80	



Dimension Information :

Amount of Pins	Dim.A	Dim.B	Dim.C
2	10.16	2.54	7.62
3	12.70	5.08	10.16
4	15.24	7.62	12.70
5	17.78	10.16	15.24
6	20.32	12.70	17.78
7	22.86	15.24	20.32
8	25.40	17.78	22.86
9	27.94	20.32	25.40
10	30.48	22.86	27.94
11	33.02	25.40	30.48
12	35.56	27.94	33.02
13	38.10	30.48	35.56
14	40.64	33.02	38.10
15	43.18	35.56	40.64
16	45.72	38.10	43.18



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

2.54mm POGO PIN CONNECTOR DUAL ROW

ORDER INFORMATION

TPE1-01 $\frac{X}{a} \frac{X}{b} \frac{X}{c}$ - 02 $\frac{X}{d} \frac{X}{e}$

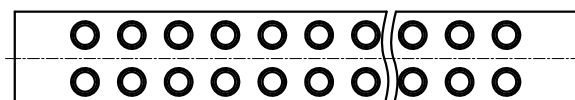
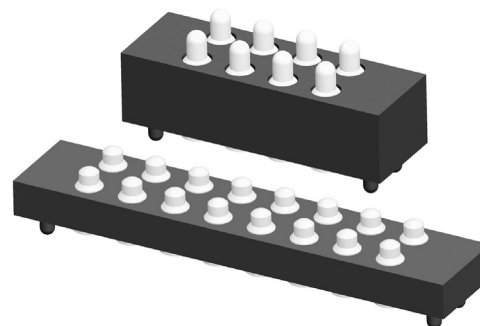
a =Dual Row

b =Amount of Pins 4Pins ~ 32Pins

c =Pin Height Dim.L
 1-3.5mm; 2-4.25mm; 3-4.5mm
 4-5.0mm; 5-5.5mm; 6-6.0mm
 7-6.5mm; 8-7.0mm; 9-7.5mm
 A-8.2mm

d =Packing Option

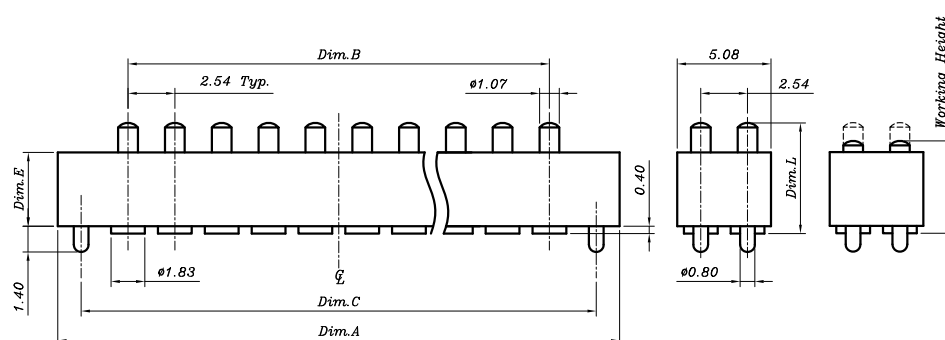
e =Plating Option



Dimension Information :

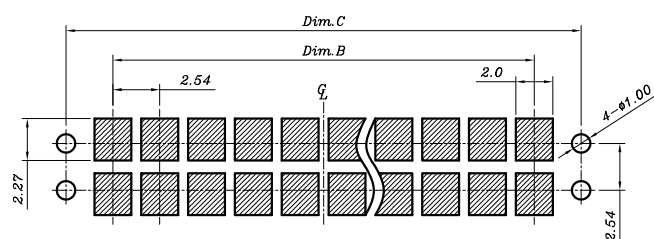
Pin Height	Working Height
3.5mm	Dim.L-0.4mm
4.25mm~7.5mm	Dim.L-0.7mm
8.2mm	Dim.L-1.0mm

Pin Height	Dim.	Dim.E
3.5mm~7.5mm		2.00
4.25mm~7.5mm		2.80
4.25mm~7.5mm		2.95
6.0mm~8.2mm		4.00
6.0mm~8.2mm		4.50
6.5mm~7.5mm		4.80



Dimension Information :

Amount of Pins	Dim.A	Dim.B	Dim.C
4	10.16	2.54	7.62
6	12.70	5.08	10.16
8	15.24	7.62	12.70
10	17.78	10.16	15.24
12	20.32	12.70	17.78
14	22.86	15.24	20.32
16	25.40	17.78	22.86
18	27.94	20.32	25.40
20	30.48	22.86	27.94
22	33.02	25.40	30.48
24	35.56	27.94	33.02
26	38.10	30.48	35.56
28	40.64	33.02	38.10
30	43.18	35.56	40.64
32	45.72	38.10	43.18



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

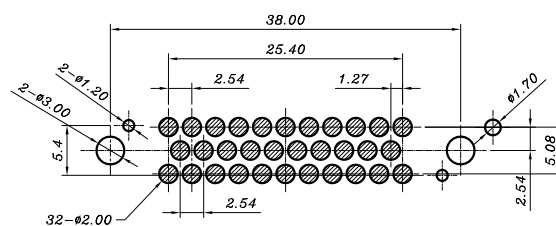
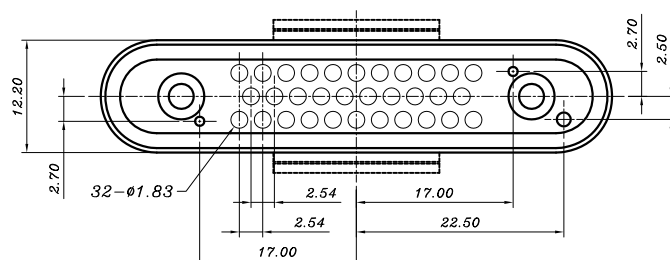
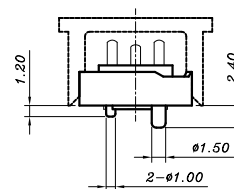
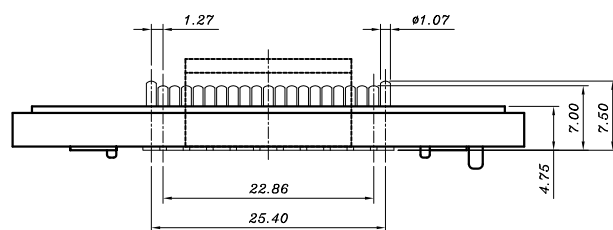
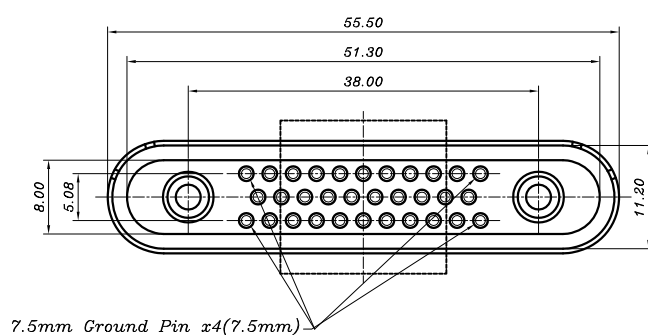
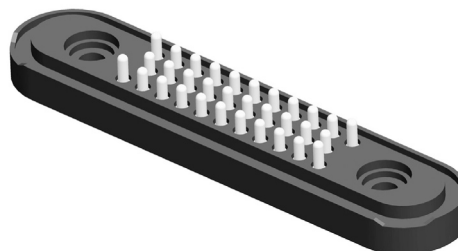
POGO PIN CONNECTOR

ORDER INFORMATION

TPE0-02032 - 10 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

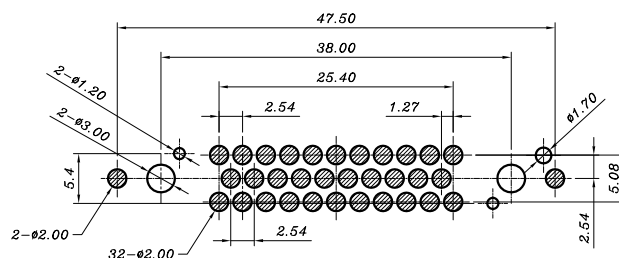
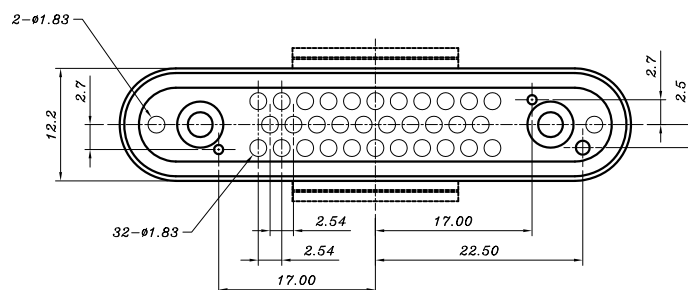
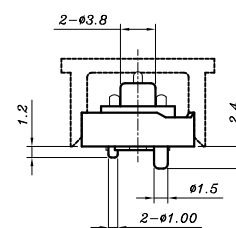
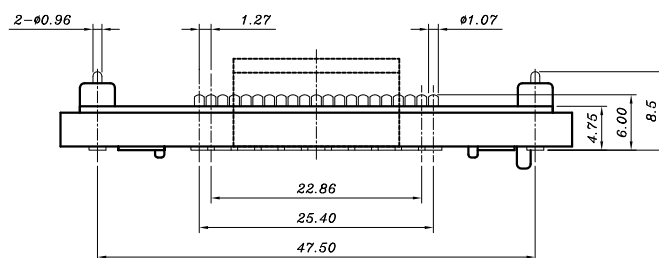
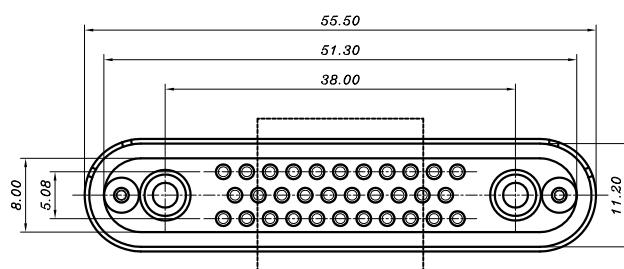
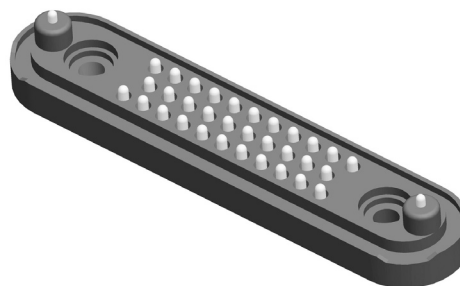
POGO PIN CONNECTOR

ORDER INFORMATION

TPE0-02032 - 30 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

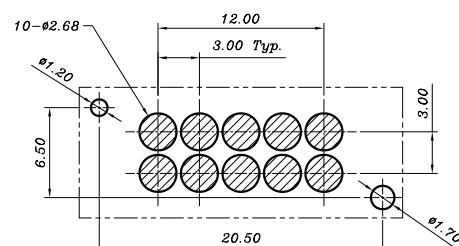
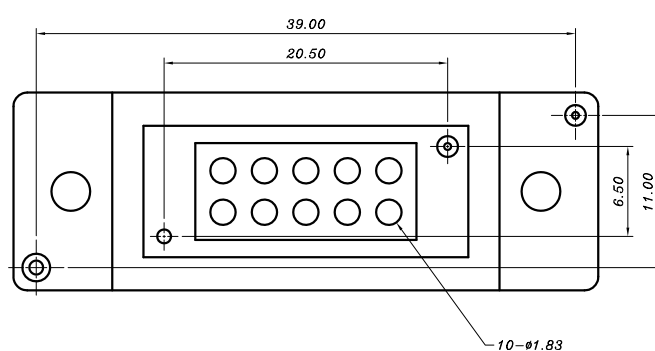
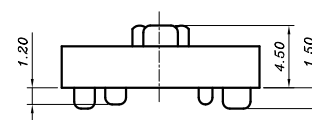
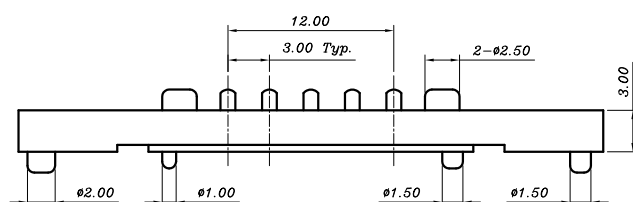
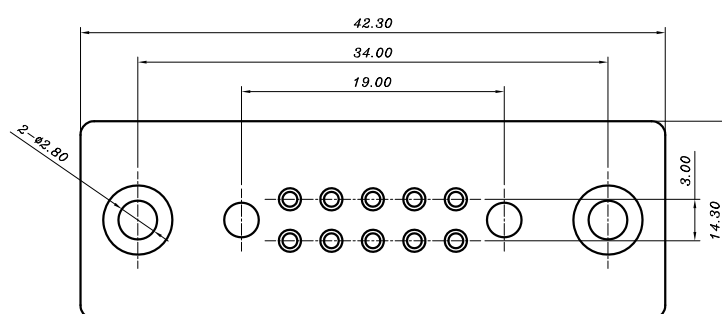
POGO PIN CONNECTOR

ORDER INFORMATION

TPR0-01110 - 70 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

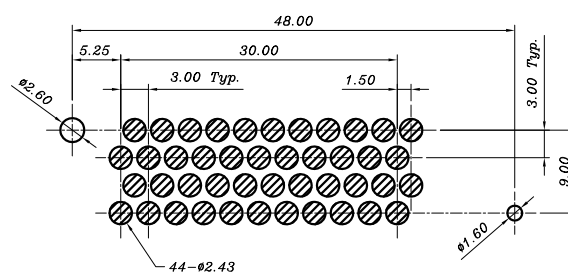
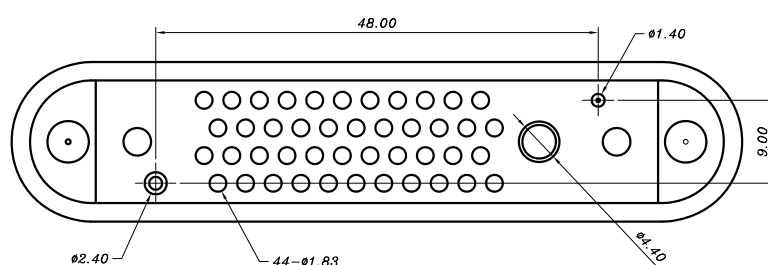
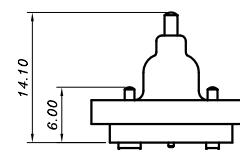
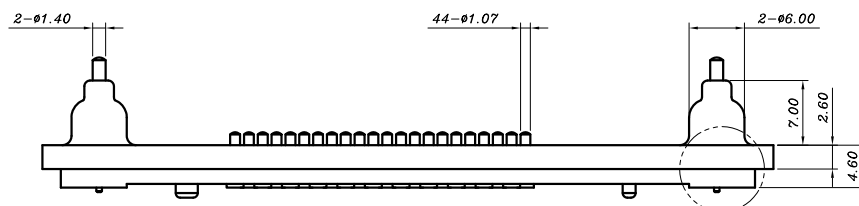
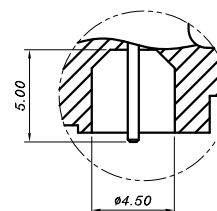
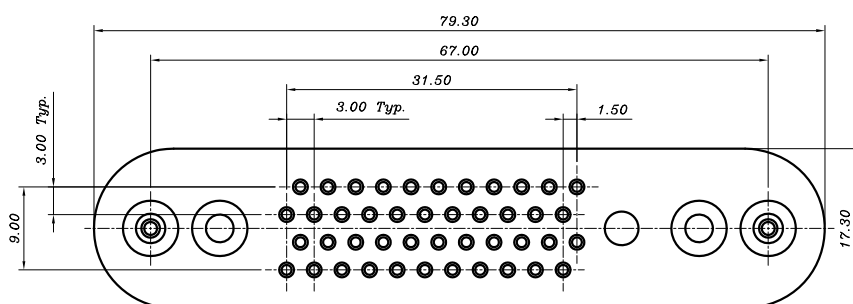
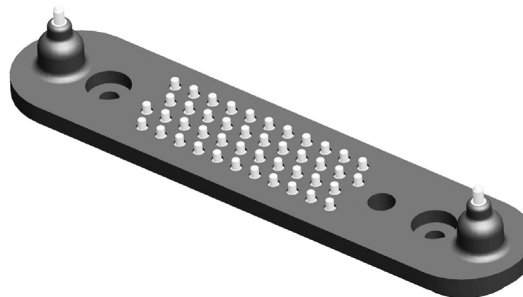
POGO PIN CONNECTOR

ORDER INFORMATION

TPR0-01220 - 70 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

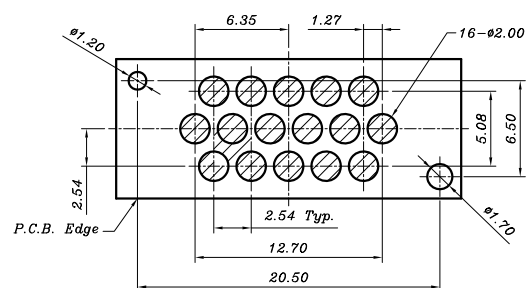
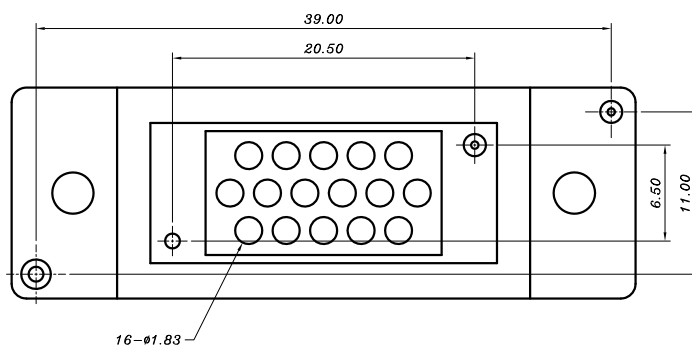
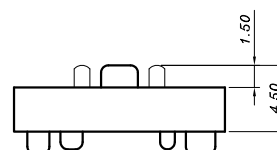
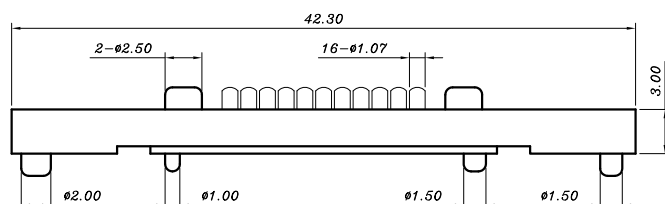
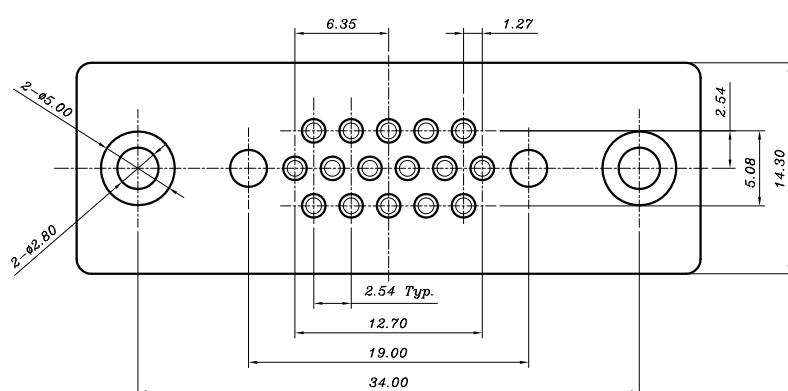
POGO PIN CONNECTOR

ORDER INFORMATION

TPE1-03130 - 70 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plated Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.54mm MACHINE PIN CONNECTOR SINGLE ROW

ORDER INFORMATION

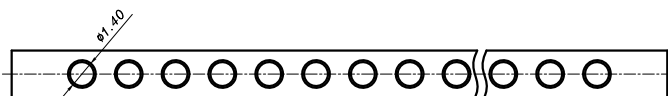
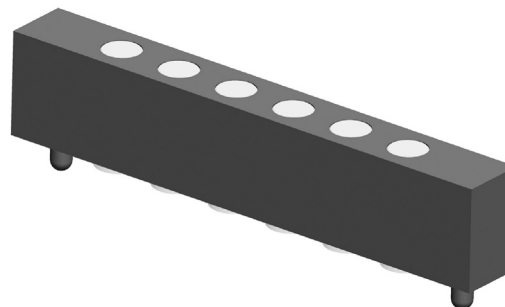
TPE0-01 $\frac{1}{a} \frac{X}{b} 1 - 02 \frac{X}{c} \frac{X}{d}$

a =Single Row

b =Amount of Pins 2Pins ~ 16Pins

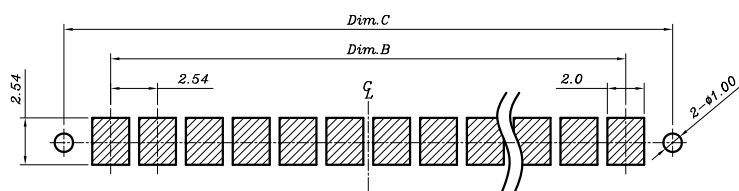
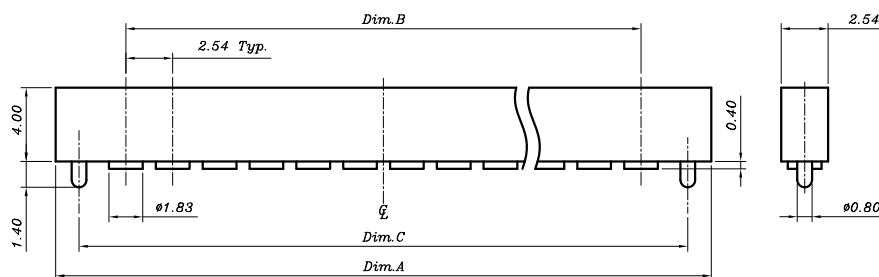
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Amount of Pins	Dim.A	Dim.B	Dim.C
TPE0-01121-02XX	2	10.16	2.54	7.62
TPE0-01131-02XX	3	12.70	5.08	10.16
TPE0-01141-02XX	4	15.24	7.62	12.70
TPE0-01151-02XX	5	17.78	10.16	15.24
TPE0-01161-02XX	6	20.32	12.70	17.78
TPE0-01171-02XX	7	22.86	15.24	20.32
TPE0-01181-02XX	8	25.40	17.78	22.86
TPE0-01191-02XX	9	27.94	20.32	25.40
TPE0-011A1-02XX	10	30.48	22.86	27.94
TPE0-011B1-02XX	11	33.02	25.40	30.48
TPE0-011C1-02XX	12	35.56	27.94	33.02
TPE0-011D1-02XX	13	38.10	30.48	35.56
TPE0-011E1-02XX	14	40.64	33.02	38.10
TPE0-011F1-02XX	15	43.18	35.56	40.64
TPE0-011G1-02XX	16	45.72	38.10	43.18



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.54mm MACHINE PIN CONNECTOR DUAL ROW

ORDER INFORMATION

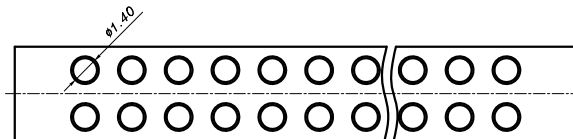
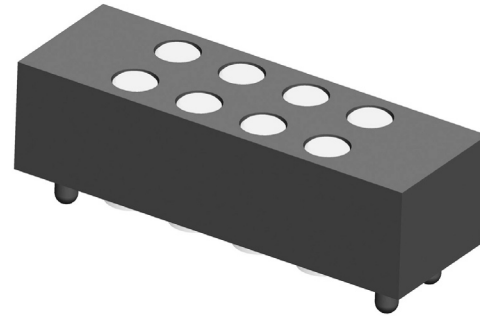
TPE0-01 $\frac{2}{a} \frac{X}{b} 1 - 02 \frac{X}{c} \frac{X}{d}$

a =Dual Row

b =Amount of Pins 4Pins ~ 32Pins

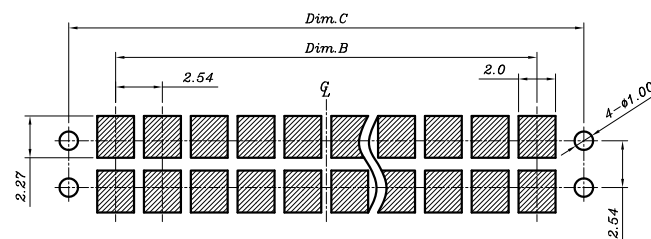
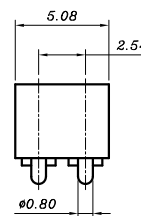
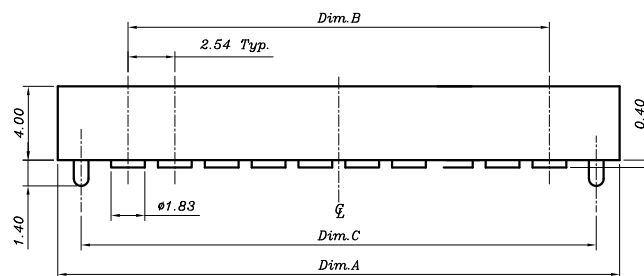
c =Packing Option

d =Plating Option



Dimension Information :

P/N:	Amount of Pins	Dim.A	Dim.B	Dim.C
TPE0-01221-02XX	4	10.16	2.54	7.62
TPE0-01231-02XX	6	12.70	5.08	10.16
TPE0-01241-02XX	8	15.24	7.62	12.70
TPE0-01251-02XX	10	17.78	10.16	15.24
TPE0-01261-02XX	12	20.32	12.70	17.78
TPE0-01271-02XX	14	22.86	15.24	20.32
TPE0-01281-02XX	16	25.40	17.78	22.86
TPE0-01291-02XX	18	27.94	20.32	25.40
TPE0-012A1-02XX	20	30.48	22.86	27.94
TPE0-012B1-02XX	22	33.02	25.40	30.48
TPE0-012C1-02XX	24	35.56	27.94	33.02
TPE0-012D1-02XX	26	38.10	30.48	35.56
TPE0-012E1-02XX	28	40.64	33.02	38.10
TPE0-012F1-02XX	30	43.18	35.56	40.64
TPE0-012G1-02XX	32	45.72	38.10	43.18



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

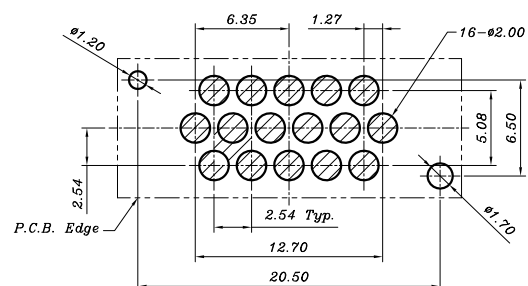
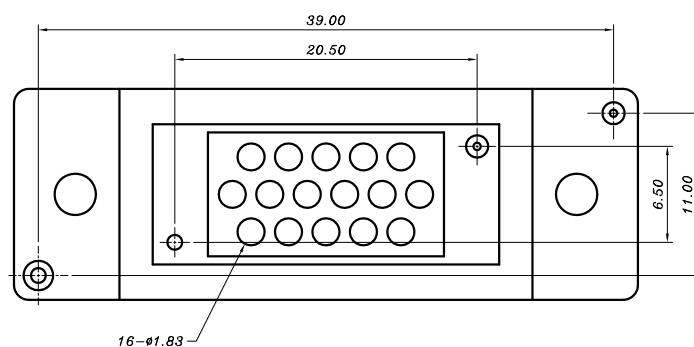
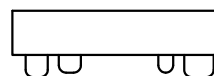
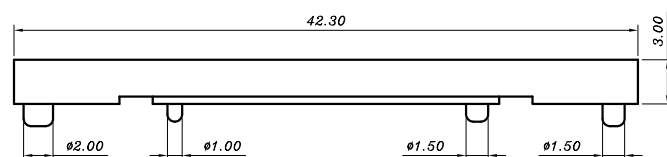
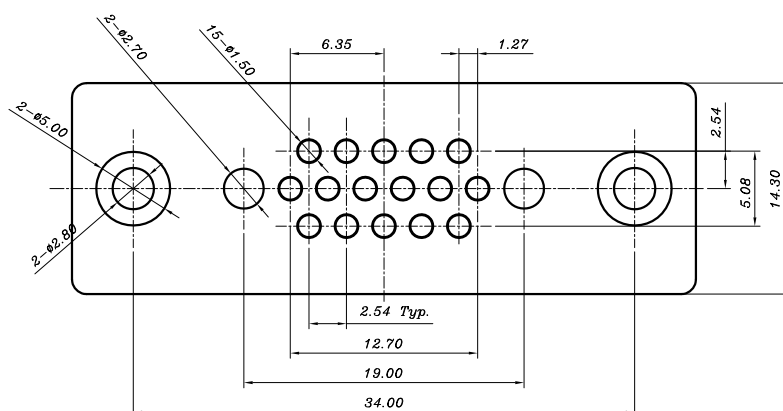
MACHINE PIN CONNECTOR

ORDER INFORMATION

TPE0-03130 - 70 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plated Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

MACHINE PIN CONNECTOR

ORDER INFORMATION

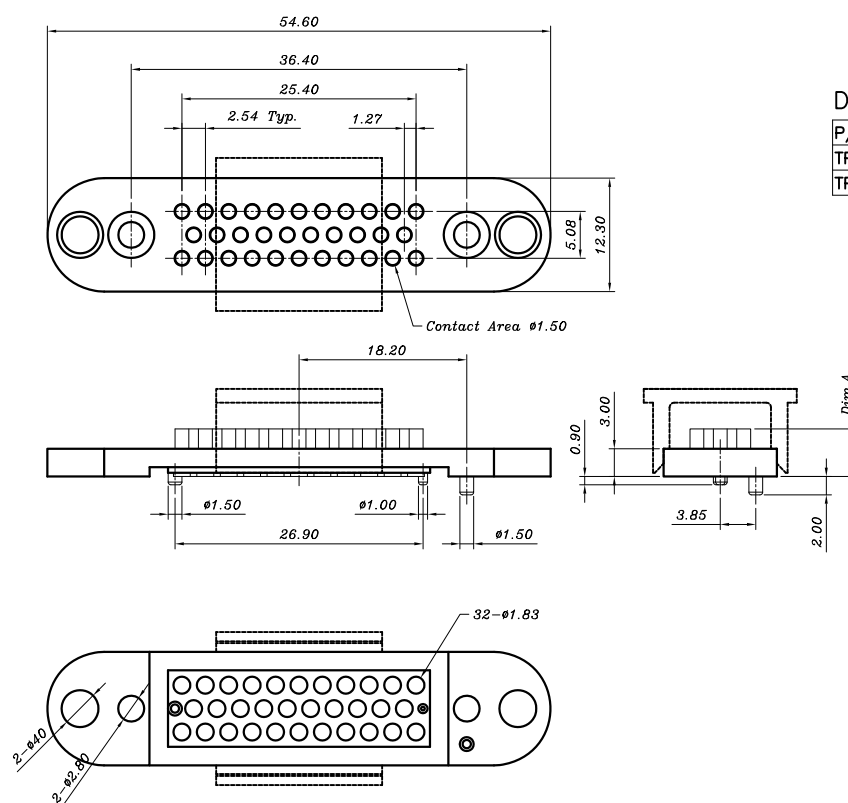
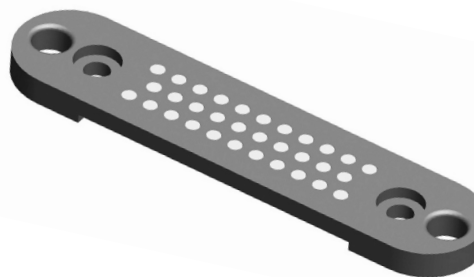
TPE1-02032 - $\frac{X}{a} 0 \frac{X}{b} \frac{X}{c}$

α =Pin Height 1-Dim.A=5.15mm

2-Dim.A=3.00mm

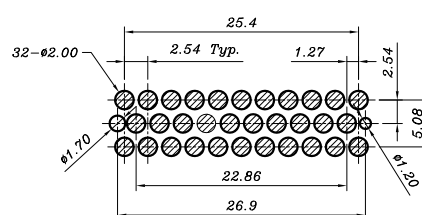
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A
TPE1-02032-10XX	5.15
TPE1-02032-20XX	3.00



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

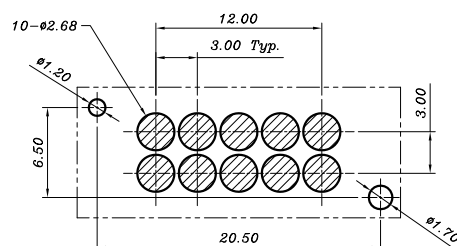
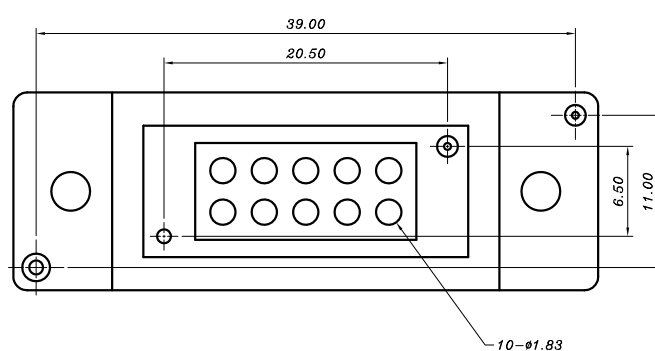
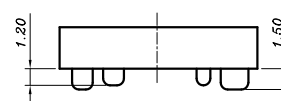
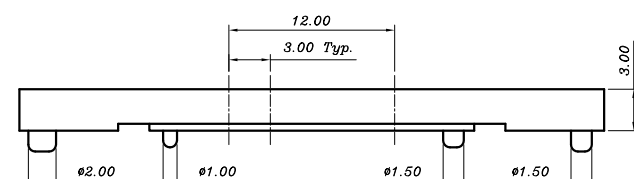
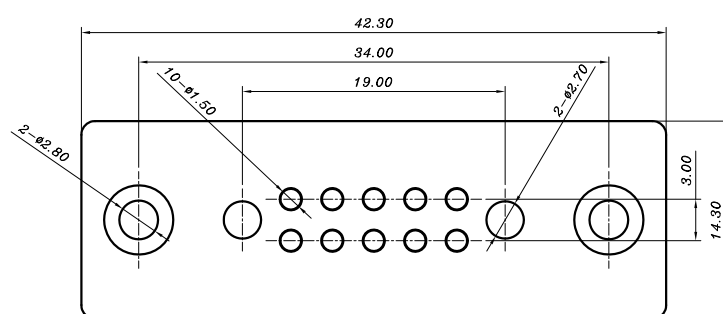
MACHINE PIN CONNECTOR

ORDER INFORMATION

TPR1-01110 - 70 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

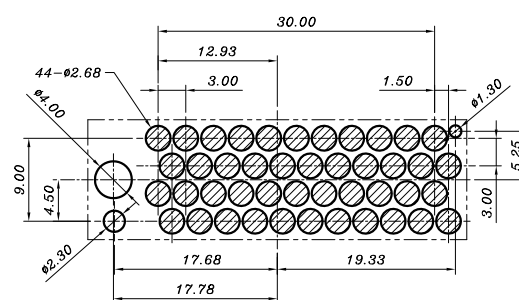
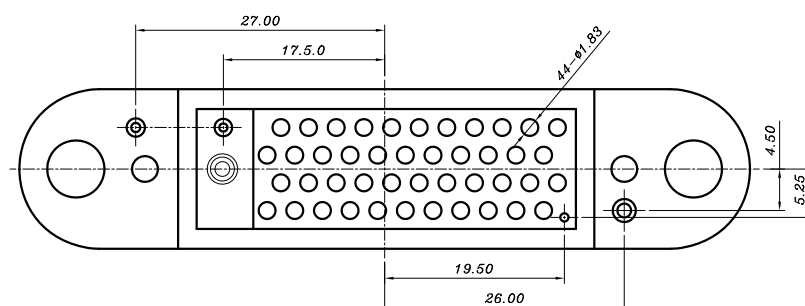
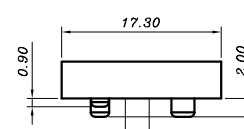
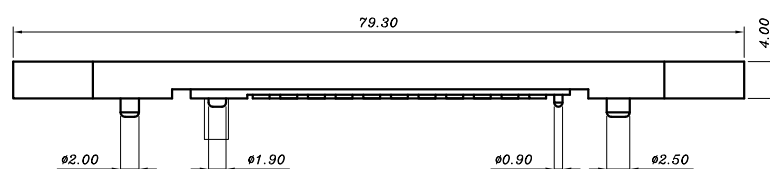
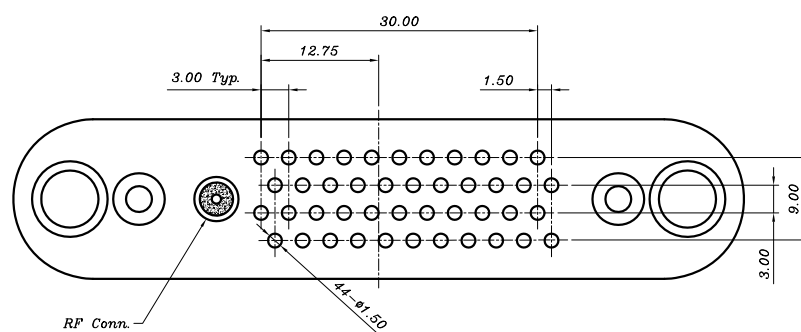
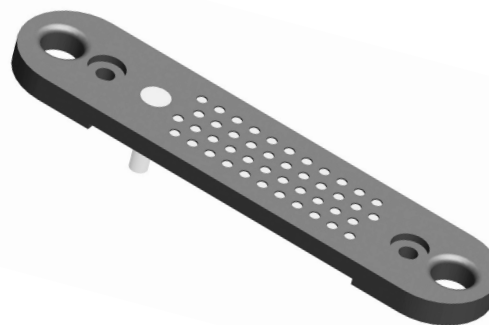
MACHINE PIN CONNECTOR

ORDER INFORMATION

TPR1-01220 - 70 $\frac{X}{a} \frac{X}{b}$

a =Packing Option

b =Plating Option



Recommended P.C.B. Layout

2.5mm SPRING PIN CONNECTOR

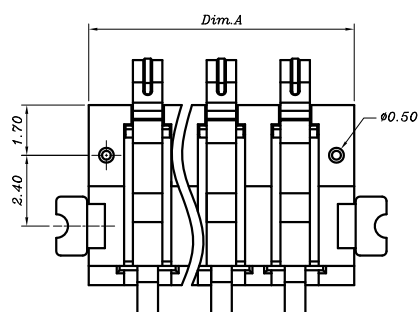
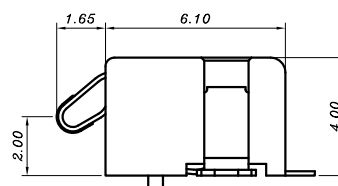
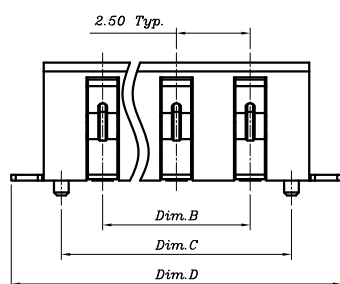
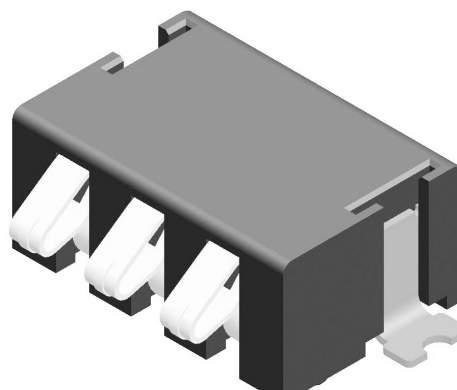
ORDER INFORMATION

TSB1-130 $\frac{X}{a}$ 0 - 00 $\frac{X}{b}$ $\frac{X}{c}$

a =3~8-3~8Pins

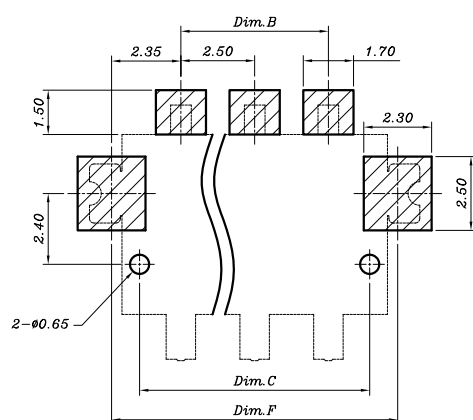
b =Packing Option

c =Plating Option



Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.F
TSB1-13030-00XX	9.00	5.00	7.80	11.20	9.70
TSB1-13040-00XX	11.50	7.50	10.30	13.70	12.20
TSB1-13050-00XX	14.00	10.00	12.80	16.20	14.70
TSB1-13060-00XX	16.50	12.50	15.30	18.70	17.20
TSB1-13070-00XX	19.00	15.00	17.80	21.20	19.70
TSB1-13080-00XX	21.50	17.50	20.30	23.70	22.20



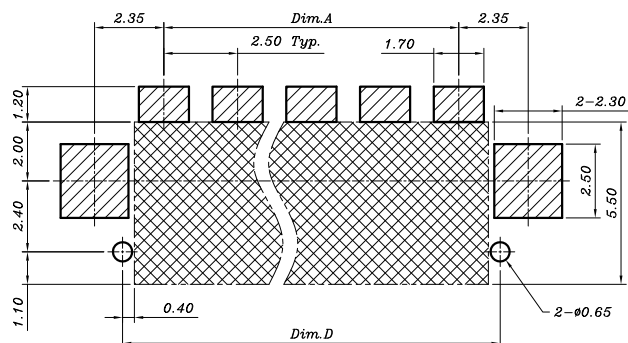
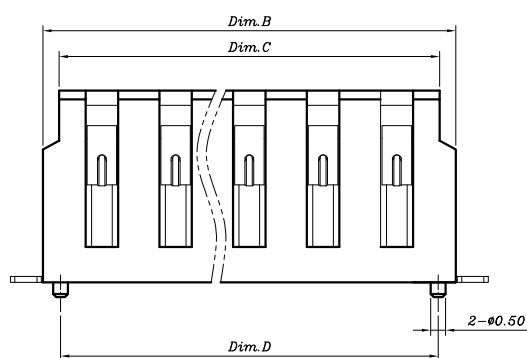
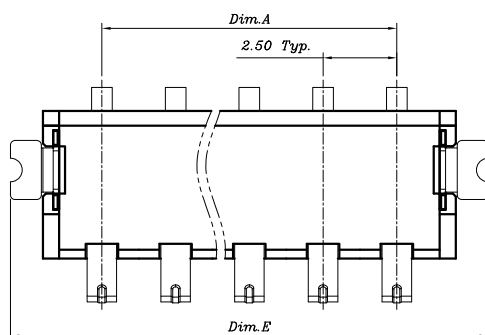
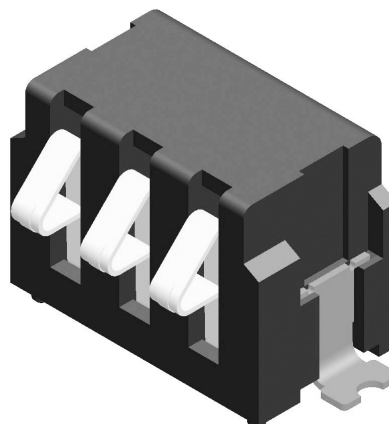
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.5mm SPRING PIN CONNECTOR

ORDER INFORMATION

TSB1-131 $\frac{X}{a}$ 0 - 00 $\frac{X}{b}$ $\frac{X}{c}$

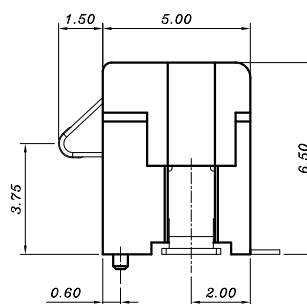
a =3~8-3~8Pins
 b =Packing Option
 c =Plating Option



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

Dimension Information :

P/N:	Dim.A	Dim.B	Dim.C	Dim.D	Dim.E
TSB1-13130-00XX	5.00	9.00	7.90	7.80	11.20
TSB1-13140-00XX	7.50	11.50	10.40	10.30	13.70
TSB1-13150-00XX	10.00	14.00	12.90	12.80	16.20
TSB1-13160-00XX	12.50	16.50	15.40	15.30	18.70
TSB1-13170-00XX	15.00	19.00	17.90	17.80	21.20
TSB1-13180-00XX	17.50	21.50	20.40	20.30	23.70



5.0mm SPRING PIN CONNECTOR

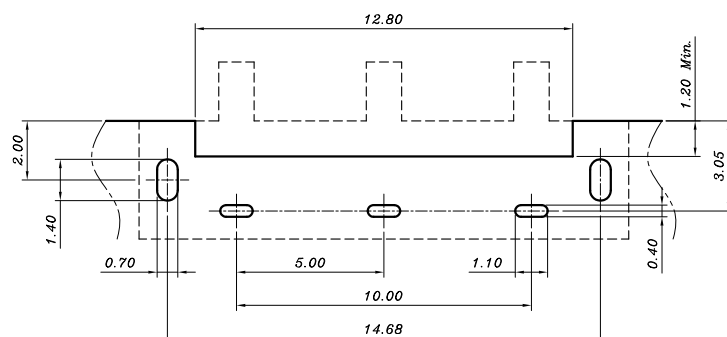
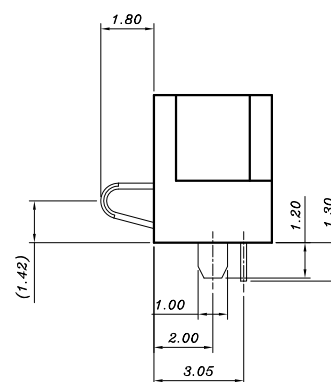
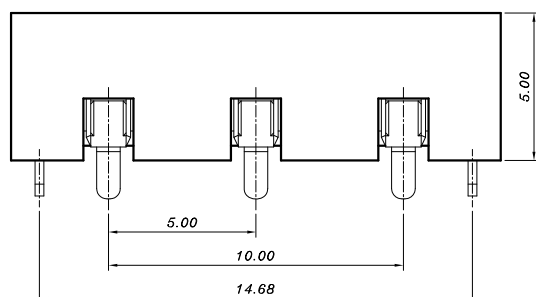
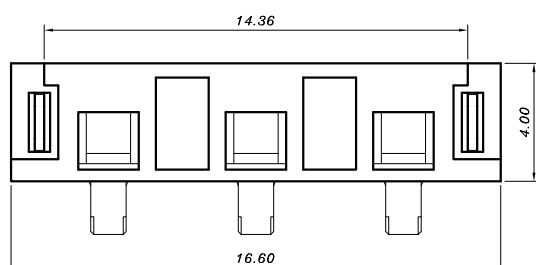
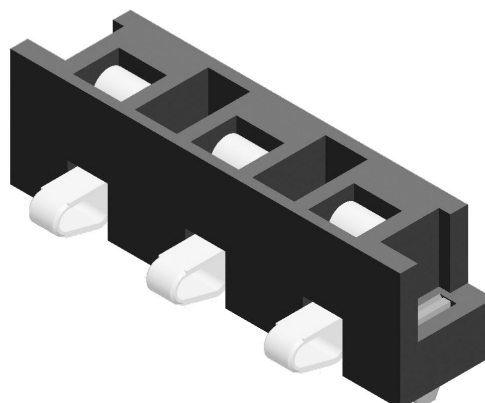
ORDER INFORMATION

TSD1-02000 - $\frac{3}{a}$ $\frac{0}{b}$ $\frac{X}{c}$ $\frac{X}{c}$ *A*

a =3-3Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

5.6mm SPRING PIN CONNECTOR

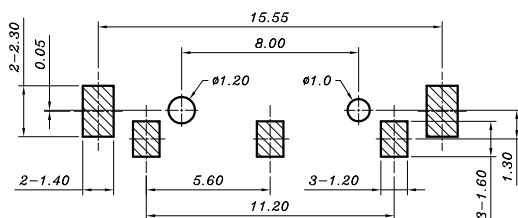
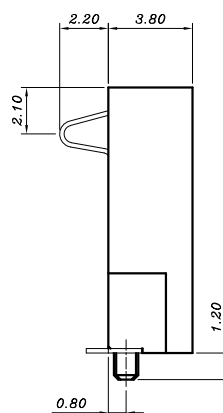
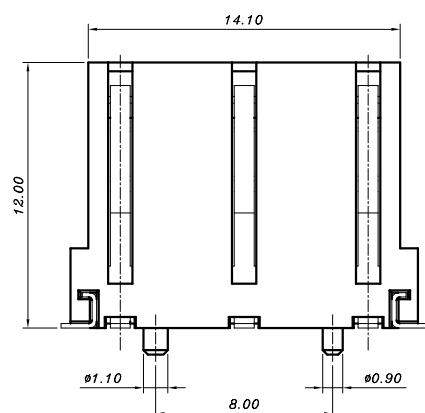
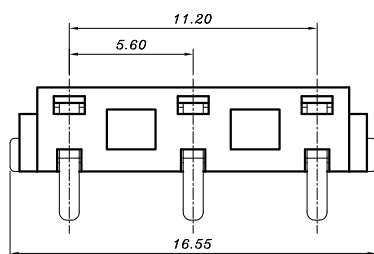
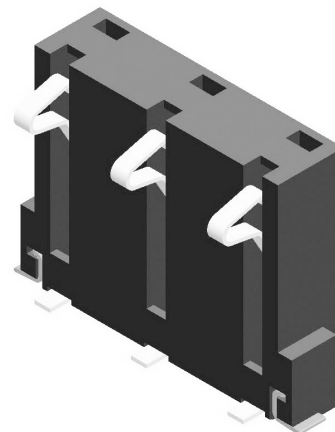
ORDER INFORMATION

TSN1-01100 - 0 $\frac{3}{a}$ $\frac{X}{b}$ $\frac{X}{c}$

$a=3-3$ Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

6.5mm SPRING PIN CONNECTOR

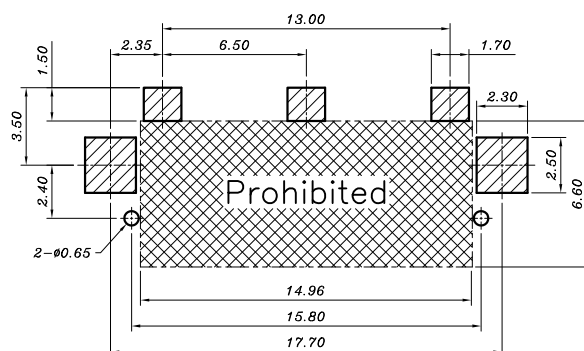
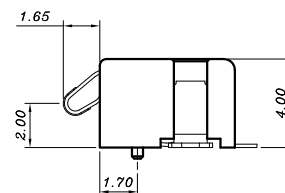
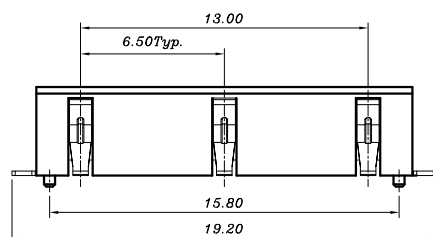
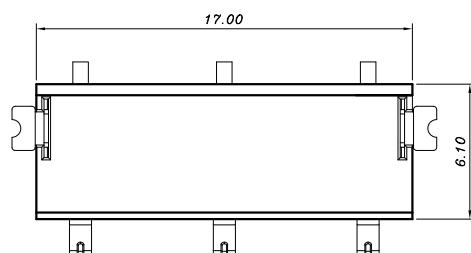
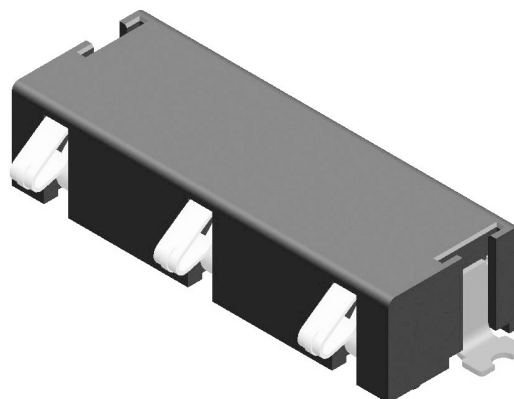
ORDER INFORMATION

TSN1-02100 - 0 $\frac{3}{a} \frac{X}{b} \frac{X}{c}$

a =3-3Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

6.5mm SPRING PIN CONNECTOR

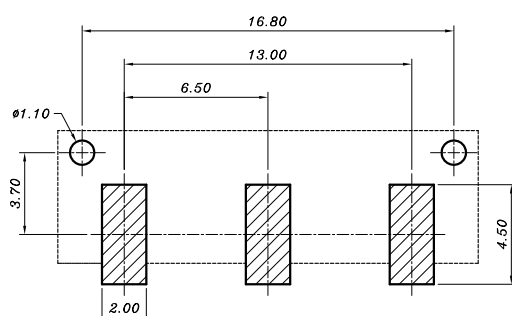
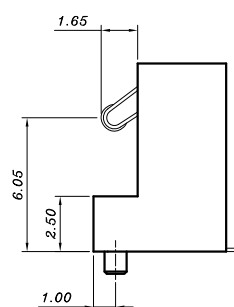
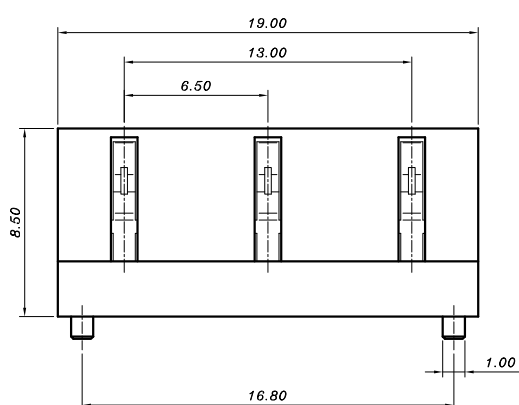
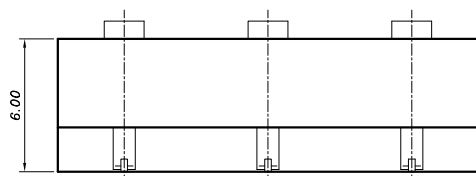
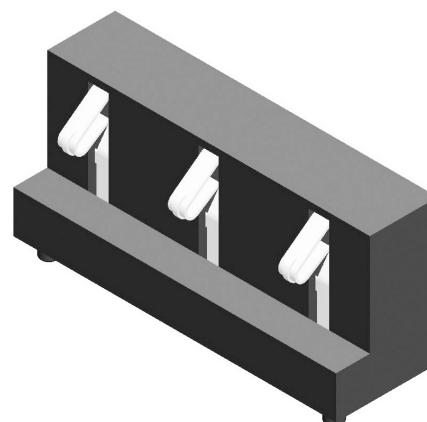
ORDER INFORMATION

TSN1-02200 - 0 $\frac{3}{a}$ $\frac{X}{b}$ $\frac{X}{c}$

a=3-3Pins

b=Packing Option

c=Plating Option



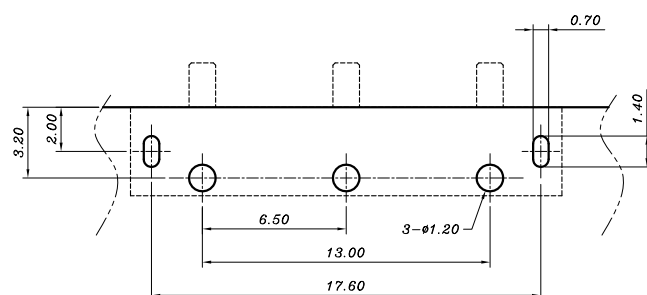
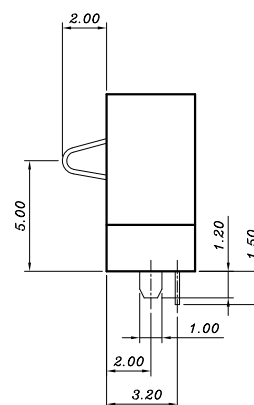
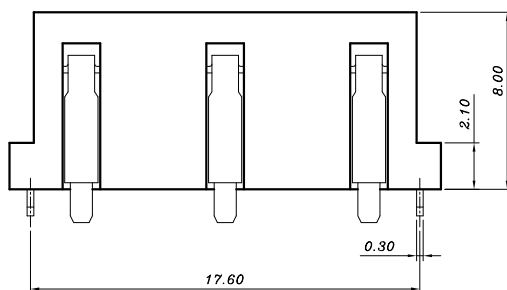
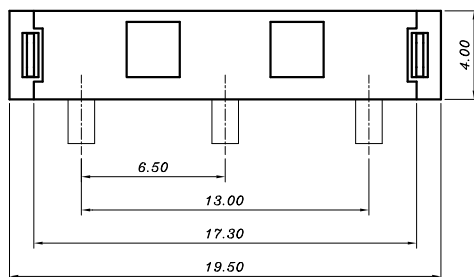
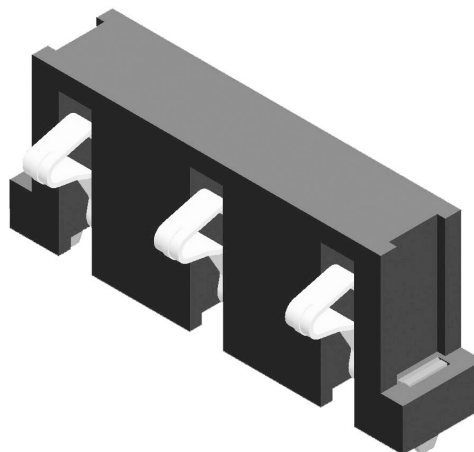
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

6.5mm SPRING PIN CONNECTOR

ORDER INFORMATION

TSN1-02300 - 0 $\frac{3}{a}$ $\frac{X}{b}$ $\frac{X}{c}$ A

a =3-3Pins
 b =Packing Option
 c =Plating Option



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm

5.8mm SPRING PIN CONNECTOR

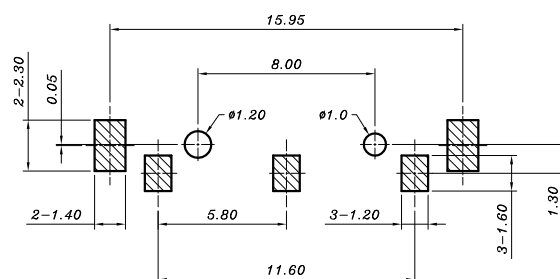
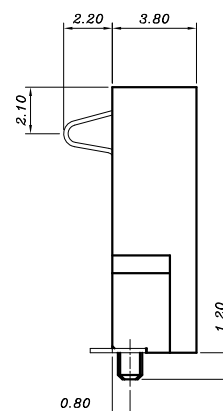
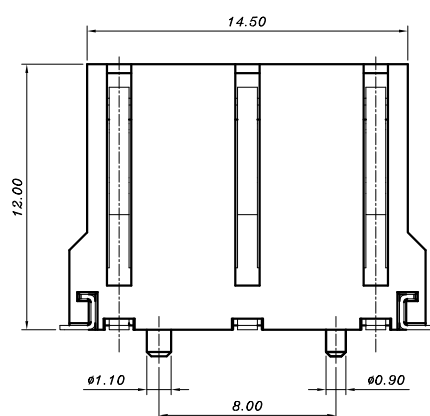
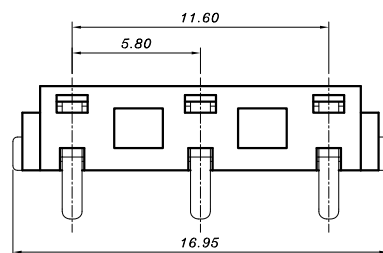
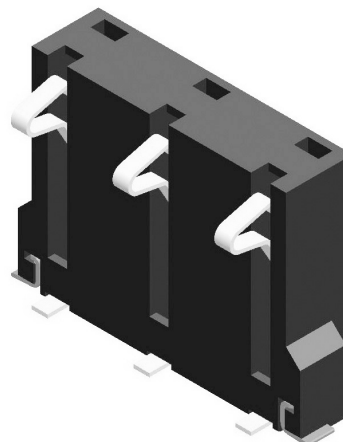
ORDER INFORMATION

TSN1-03100 - 0 $\frac{3}{a}$ $\frac{X}{b}$ $\frac{X}{c}$

a =3-3Pins

b =Packing Option

c =Plating Option



Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

6.0mm SPRING PIN CONNECTOR

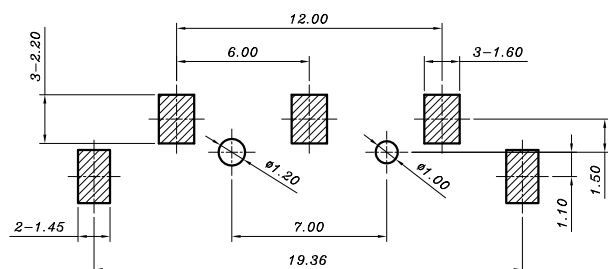
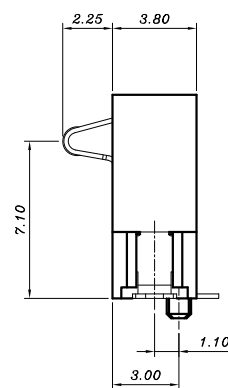
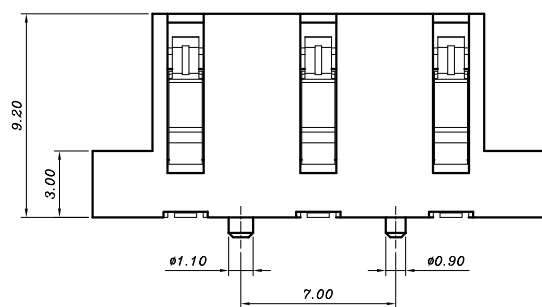
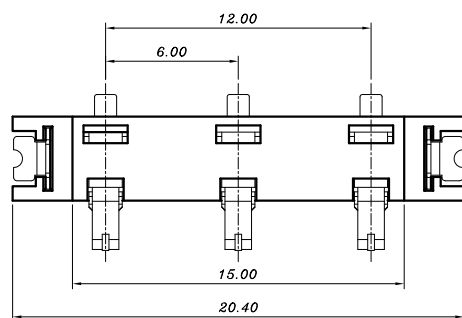
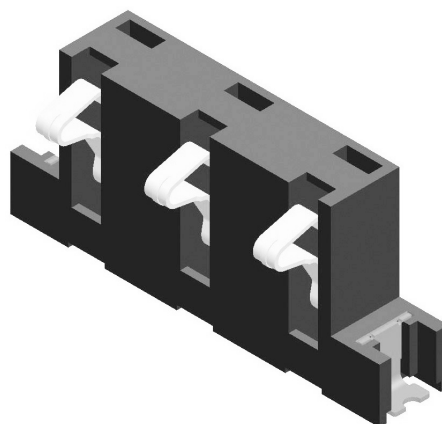
ORDER INFORMATION

TSN1-06100 - 0 $\frac{3}{a}$ $\frac{X}{b}$ $\frac{X}{c}$ A

a=3-3Pins

b=Packing Option

c=Plating Option



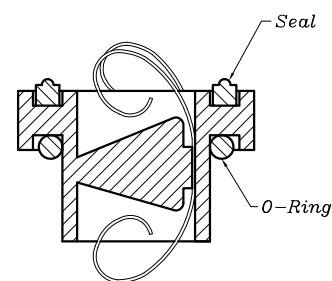
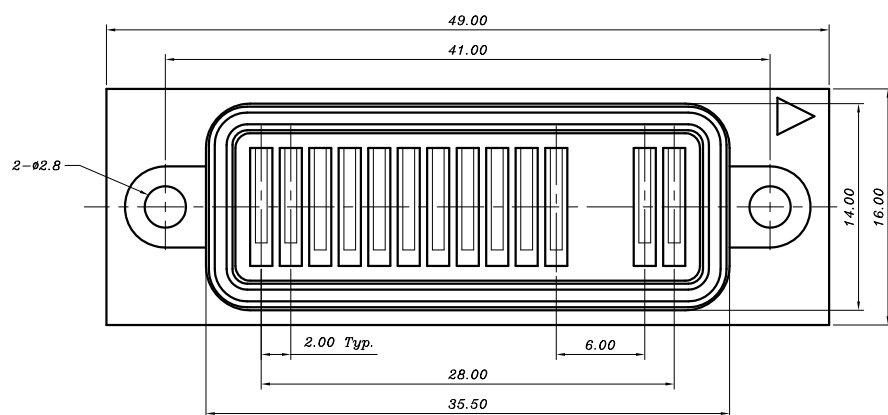
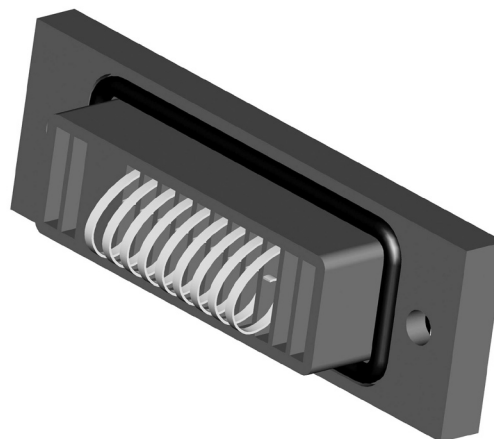
Recommended P.C.B. Layout
Layout Tolerance = ± 0.05 mm

2.0mm SPRING PIN CONNECTOR

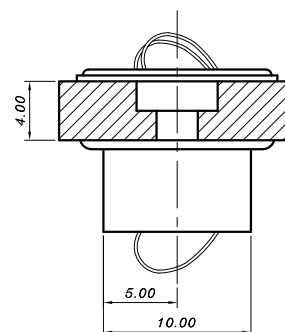
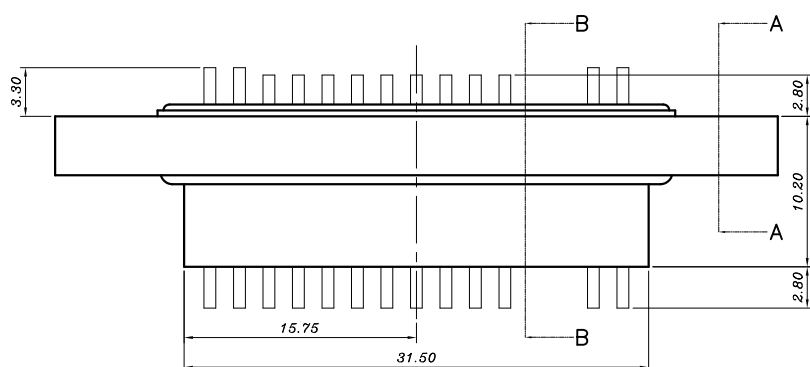
ORDER INFORMATION

TSA1-05100 - 0 $\frac{X}{a}$ $\frac{X}{b}$ $\frac{X}{c}$

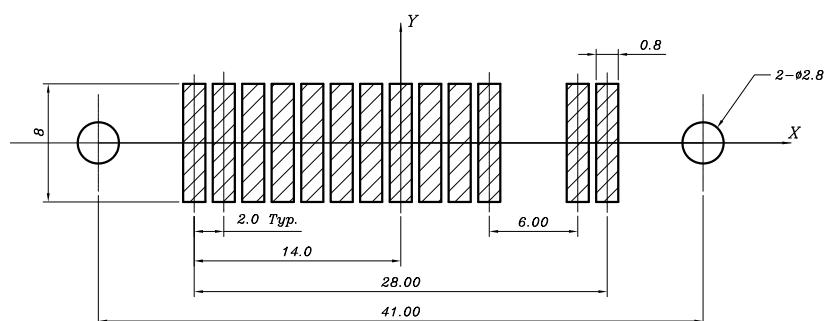
a =0-With O-Ring, Seal
 1-Without O-Ring, Seal
 b =Packing Option
 c =Plating Option



Section B-B



Section A-A



Recommended P.C.B. Layout
 Layout Tolerance = ± 0.05 mm



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