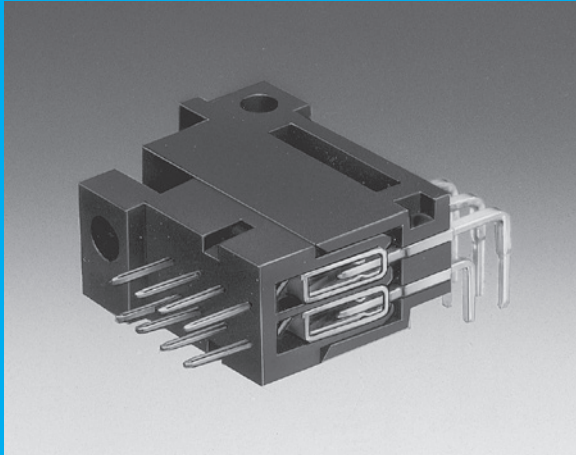


8300 / 8400 SERIES

2.54mm PITCH CONNECTOR / CONFORMS TO STANDARD DIN

RoHS
Compliant



FEATURES

- ▶ A total price advantage over card edge connector.
- ▶ Mating is easy and reliable due to unique contact design.
- ▶ Numerous variations are available.
- ▶ Horizontal, Vertical and Stacked mating combinations.
- ▶ Conforms to DIN 41612 standard and IEC 603-2 standard.
- ▶ The insulator material of PBT(polybutylene terephthalate) resin has superior chemical resistance characteristics.

ORDER CODE

8 0 - - 28 - - N

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- | | |
|---|--|
| ① | [type] Receptacle 8300 : Standard DIN 8400 : Inverse DIN 8330 : Standard DIN (VA product) 8440 : Inverse DIN (VA Product), Flush mounting |
| ② | [Number of contacts] (8300) 032 : 32pin 048 : 48pin 050 : 50pin 064 : 64pin 096 : 96pin (8400) 064 : 64pin 096 : 96pin (8330 / 8440) 032 : 32pin 044 : 44pin 048 : 48pin 050 : 50pin 064 : 64pin 090 : 90pin 096 : 096pin 100 : 100pin |
| ③ | [Contact name] (8300) 280 : straight, Wire wrap 281 : straight, DIP solder (8400) 282 : Right angle, DIP solder (8330) 283 : Straight, DIP solder (8440) 284 : Right angle, DIP solder |
| ④ | [Plating contact area] (8300 / 8400) Omit : 0.2 μm (Standard) (8330 / 8440) Omit : 0.05 μm (Standard) F : 0.2 μm (Upon request) A : 0.3 μm (Upon request) |
| ⑤ | [Option] (8330) H : With hooks |
| ⑥ | [RoHS] N : RoHS compliant |

If you would like semi-customized products, please contact your local KEL sales office.

ORDER CODE

8 1 - - 29 - - N

① ② ③ ④ ⑤ ⑥

*Please order in multiples of the quantity per package.

- | | |
|---|--|
| ① | [type] Plug 8301 : Standard DIN 8311 : Standard DIN, Flush mounting 8401 : Inverse DIN 8331 : Standard DIN (VA product) 8341 : Standard DIN, Flush mounting (VA product) 8431 : Inverse DIN (VA Product) |
| ② | [Number of contacts] (8301 / 8311) 032 : 32pin 048 : 48pin 050 : 50pin 064 : 64pin 096 : 96pin (8401) 064 : 64pin 096 : 96pin (8331 / 8341 / 8431) 032 : 32pin 044 : 44pin 048 : 48pin 050 : 50pin 064 : 64pin 090 : 90pin 096 : 096pin 100 : 100pin |
| ③ | [Contact name] (8301 / 8311) 290 : Right angle, Dip solder (8401) 292 : Straight, DIP solder (8331 / 8341) 294 : Right angle, DIP solder (8431) 294 : Straight, DIP solder |
| ④ | [Plating contact area] (8301 / 8311 / 8401) Omit : 0.2 μm (Standard) (8331 / 8341 / 8431) Omit : 0.05 μm (Standard) F : 0.2 μm (Upon request) A : 0.3 μm (Upon request) |
| ⑤ | [Option] (8331 / 8341) H : With hooks |
| ⑥ | [RoHS] N : RoHS compliant |

If you would like semi-customized products, please contact your local KEL sales office.

SPECIFICATIONS

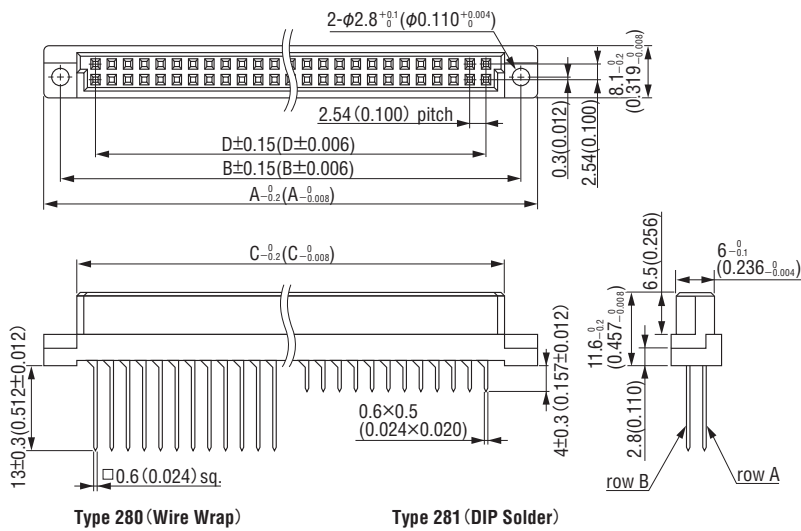
Material and plating		Electrical Characteristics	
Insulator material	Glass-filled PBT(UL94V-0) [8400 64pin] Glass-filled PET(UL94V-0)	Current rating	[8300/8301/8311/8400/8401] 2A per contact [8330/8331/8341/8431/8440] 1A per contact
		Contact resistance	20mΩ max.
Contact material	Copper alloy	Dielectric withstanding voltage	1000V AC for 1 minute.
		Insulation resistance	10 ⁶ M min. 500V DC
		Insertion force	1.18N × Number of contacts max. /pair
		Withdrawal force	0.15N × Number of contacts min. /pair
Contact plating	(Contact area) Gold over Nickel (Terminal area) Tin copper over Nickel	Individual withdrawal force	0.15N min. (with 0.56mm thickness steel gage)
		Contact retention	20N min.
		Operating temperature	-55°C to +85°C

Product List

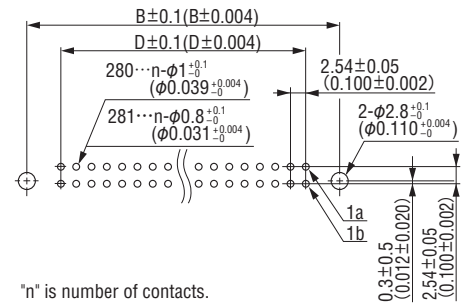
Pitch	type	Plug/ Receptacle	Contact tail style	Termination	Mounting style	Number of rows	Number of contacts	Series name	
2.54mm (100mil)	DIN/IEC standard (Standard type)	Plug	Right angle	DIP solder	Standard	2	32, 50, 64	8301	
						3	48, 96		
					Flush mounting	2	32, 44, 50, 64, 90, 100	8331 (VA TYPE)	
						3	48, 96		
		Receptacle	Straight	DIP solder Wire wrap	Straight	Standard	2	32, 50, 64	8300
							3	48, 96	
						DIP solder	2	32, 44, 50, 64, 90, 100	8330 (VA TYPE)
							3	48, 96	
	DIN/IEC standard (Inverse type)	Plug	Straight	DIP solder	—	2	64	8401	
						3	96		
						Standard	2	32, 44, 50, 64, 90, 100	8431 (VA TYPE)
							3	48, 96	
		Receptacle	Right angle	DIP solder	Right angle	Standard	2	64	8400
							3	96	
						Flush mounting	2	32, 44, 50, 64, 90, 100	8440 (VA TYPE)
							3	48, 96	

8300-□□□-280/281-N (Receptacle, Straight, DIP Solder/Wire Wrap, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



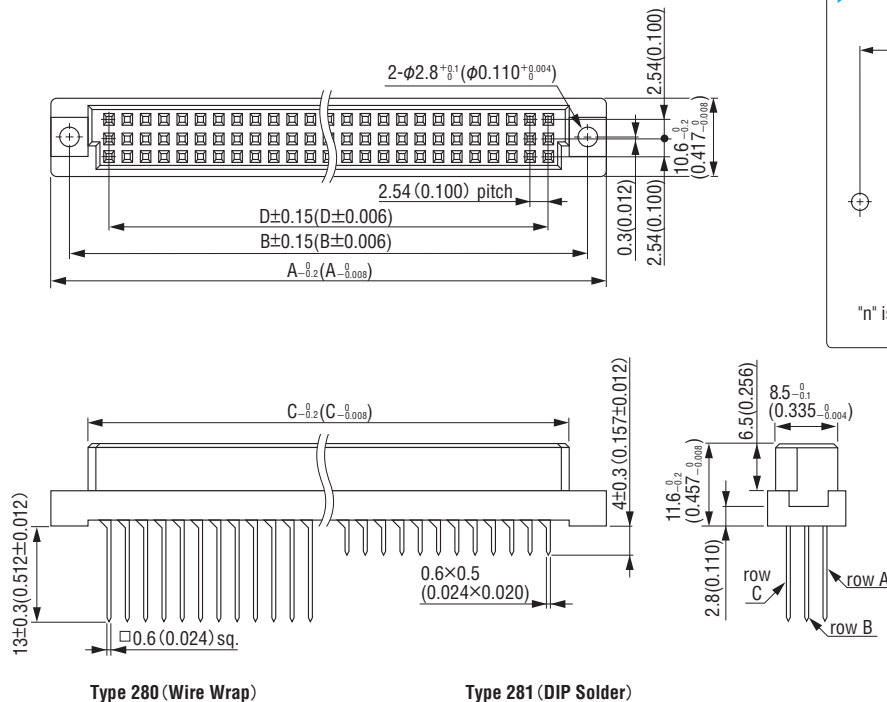
Packaging style
Other

Product Table / Dimensions

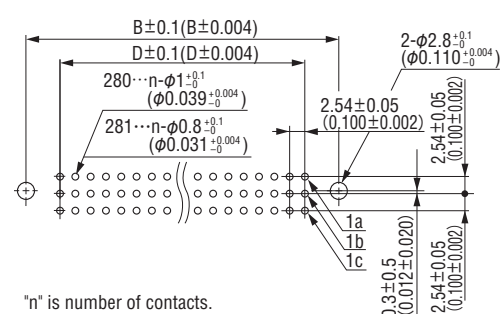
No. of contacts	Part Number	A	B	C	D	Number of packaging
32	8300-032-280/281-N	54.36 (2.140)	49.36 (1.943)	44.36 (1.746)	38.10 (1.500)	160
						320
50	8300-050-280/281-N	77.22 (3.040)	72.22 (2.843)	67.22 (2.646)	60.96 (2.400)	110
						230
64	8300-064-280/281-N	95.00 (3.740)	90.00 (3.543)	85.00 (3.346)	78.74 (3.100)	90
						180

8300-□□□-280/281-N (Receptacle, Straight, DIP Solder/Wire Wrap, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



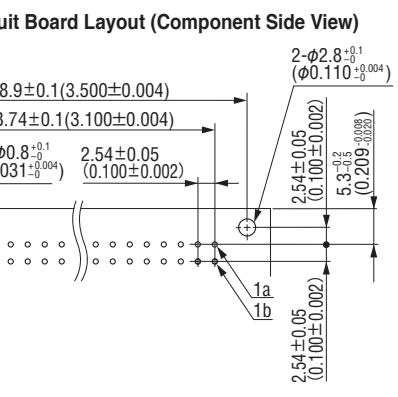
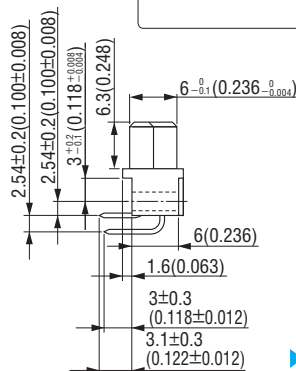
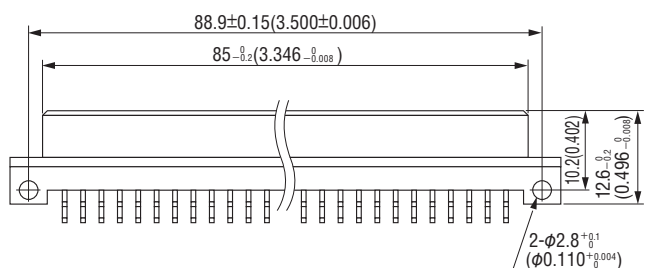
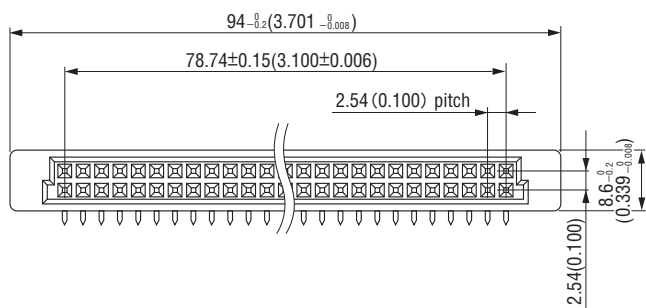
Packaging style
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
48	8300-048-280/281-N	54.36 (2.140)	49.36 (1.943)	44.36 (1.746)	38.10 (1.500)	120
						240
96	8300-096-280/281-N	95.00 (3.740)	90.00 (3.543)	85.00 (3.346)	78.74 (3.100)	70
						140

8400-064-282-N (Receptacle, Right angle, 2 rows)

Unit : mm(inch)



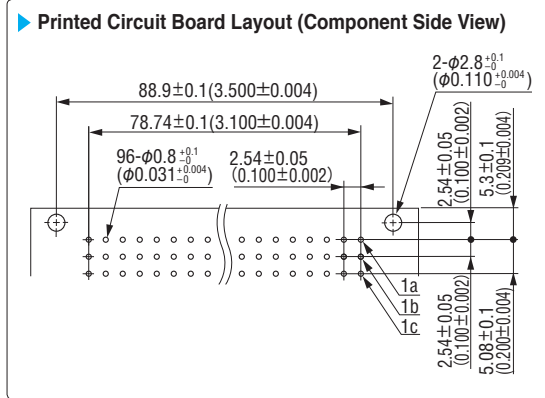
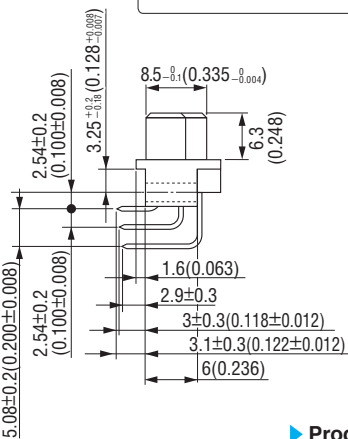
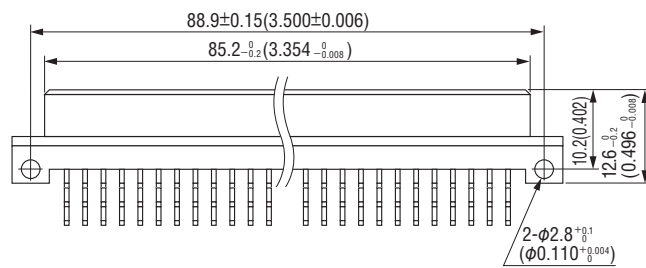
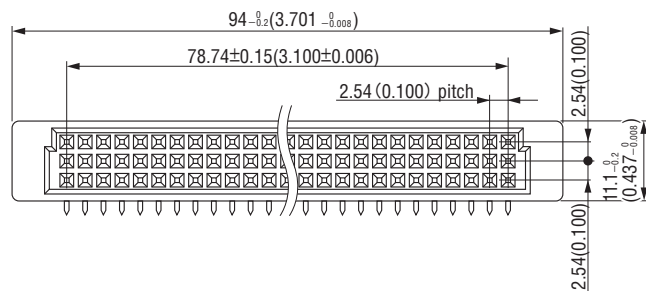
Packaging style	
Other	

Product Table

No. of contacts	Part Number	Number of packaging
64	8400-064-282-N	190

8400-096-282-N (Receptacle, Right angle, 3 rows)

Unit : mm(inch)



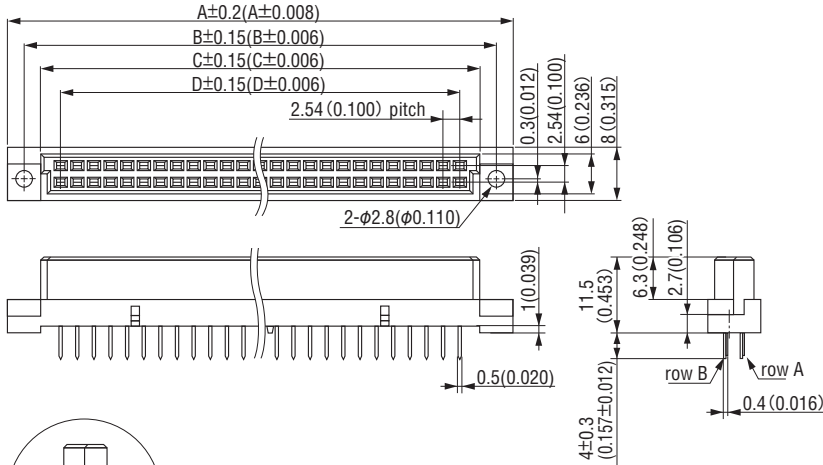
Packaging style	
Other	

Product Table

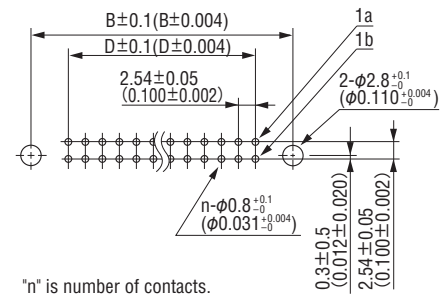
No. of contacts	Part Number	Number of packaging
96	8400-096-282-N	100

8330-□□□-283□-□-**N** (Receptacle, Straight, 2 rows)

Unit : mm (inch)



Printed Circuit Board Layout (Component Side View)



Packaging style

Other

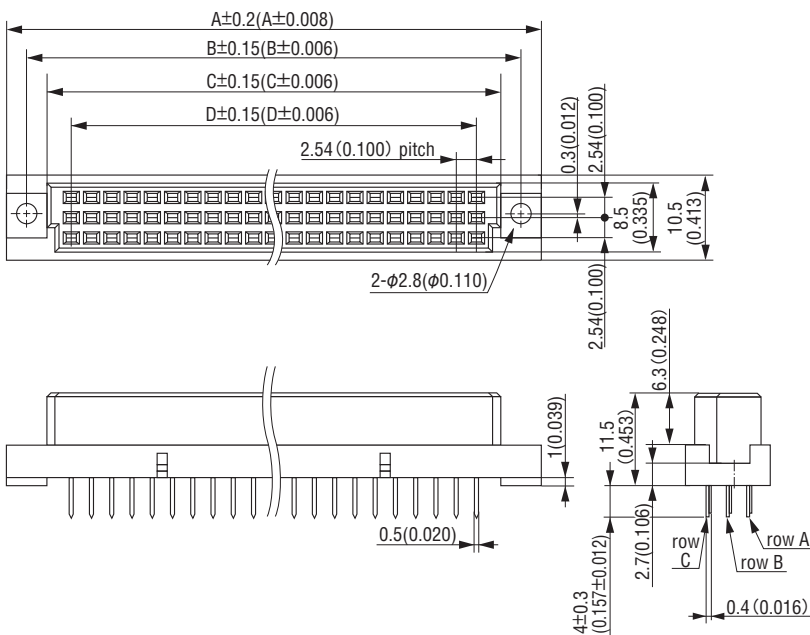
■ (Option) With hooks
 Recommended PWB thickness : 1.6mm (0.063")

Product Table / Dimensions

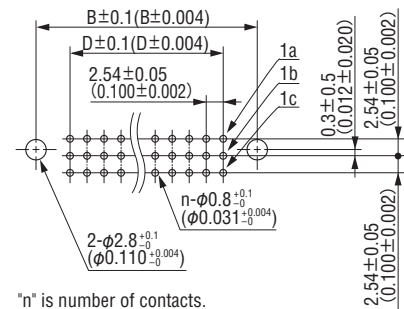
No. of contacts	Part Number	A	B	C	D	Number of packaging
32	8330-032-283□-□-N	54.36 (2.140)	49.36 (1.943)	44.26 (1.743)	38.10 (1.500)	300
44	8330-044-283□-□-N	69.60 (2.740)	64.60 (2.543)	59.50 (2.343)	53.34 (2.100)	260
50	8330-050-283□-□-N	77.22 (3.040)	72.22 (2.843)	67.12 (2.643)	60.96 (2.400)	240
64	8330-064-283□-□-N	95.00 (3.740)	90.00 (3.543)	84.90 (3.343)	78.74 (3.100)	180
90	8330-090-283□-□-N	128.02 (5.040)	123.02 (4.843)	117.92 (4.643)	111.76 (4.400)	120
100	8330-100-283□-□-N	140.72 (5.540)	135.72 (5.343)	130.62 (5.143)	124.46 (4.900)	60

8330-□□□-283□-□-**N** (Receptacle, Straight, 3 rows)

Unit : mm (inch)



Printed Circuit Board Layout (Component Side View)



■ (Option) With hooks
 Recommended PWB thickness : 1.6mm (0.063")

Packaging style

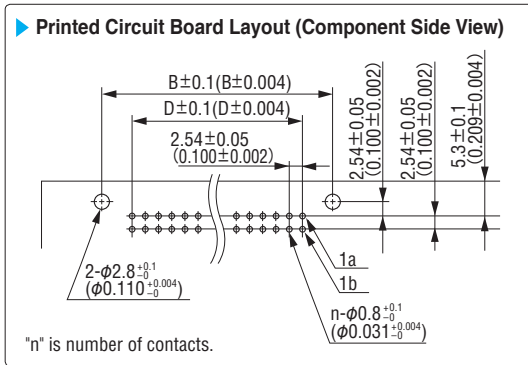
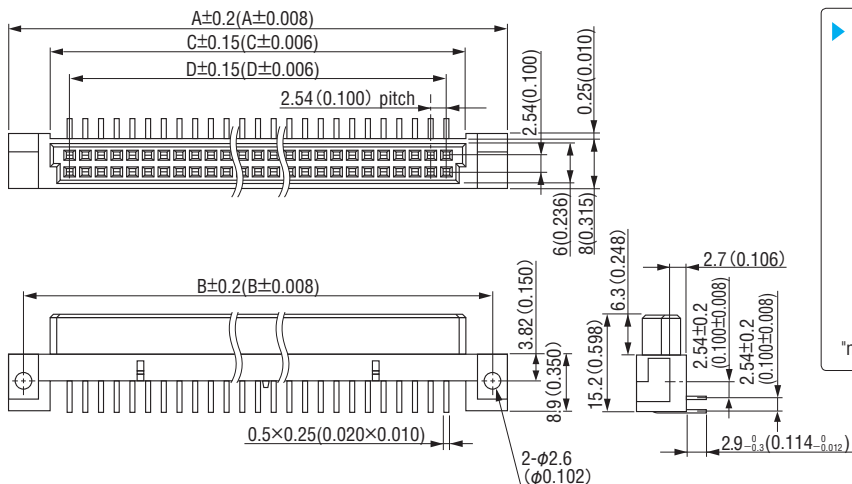
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
48	8330-048-283□-□-N	54.36 (2.140)	49.36 (1.943)	44.26 (1.743)	38.10 (1.500)	240
96	8330-096-283□-□-N	95.00 (3.740)	90.00 (3.543)	84.90 (3.343)	78.74 (3.100)	70

8440-□□□-284□-N (Receptacle, Right angle, Flush mounting, 2 rows)

Unit : mm(inch)



Packaging style
Other

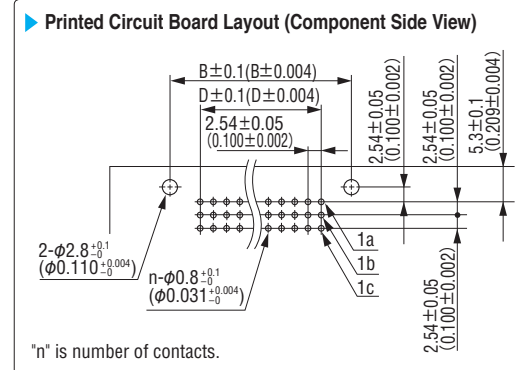
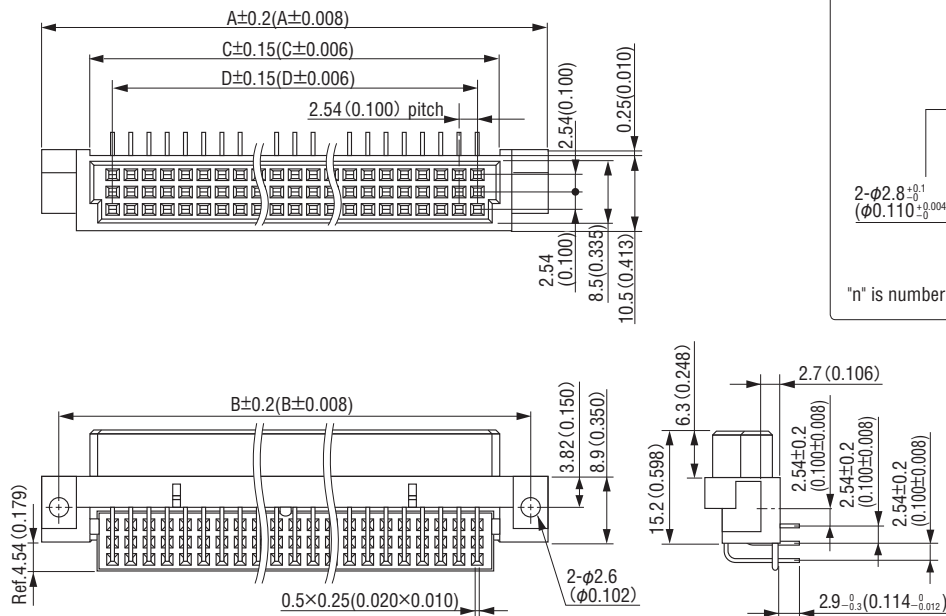
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
32	8440-032-284□-N	58.34 (2.297)	53.34 (2.100)	44.26 (1.743)	38.10 (1.500)	300
44	8440-044-284□-N	73.58 (2.897)	68.58 (2.700)	59.50 (2.343)	53.34 (2.100)	225
50	8440-050-284□-N	81.20 (3.197)	76.20 (3.000)	67.12 (2.643)	60.96 (2.400)	225
64	8440-064-284□-N	98.98 (3.897)	93.98 (3.700)	84.90 (3.343)	78.74 (3.100)	170
90	8440-090-284□-N	132.00 (5.197)	127.00 (5.000)	117.92 (4.643)	111.76 (4.400)	110
100	8440-100-284□-N	144.70 (5.697)	139.70 (5.500)	130.62 (5.143)	124.46 (4.900)	115



8440-□□□-284□-N (Receptacle, Right angle, Flush mounting, 3 rows)

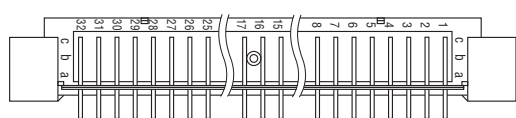
Unit : mm(inch)



Packaging style
Other

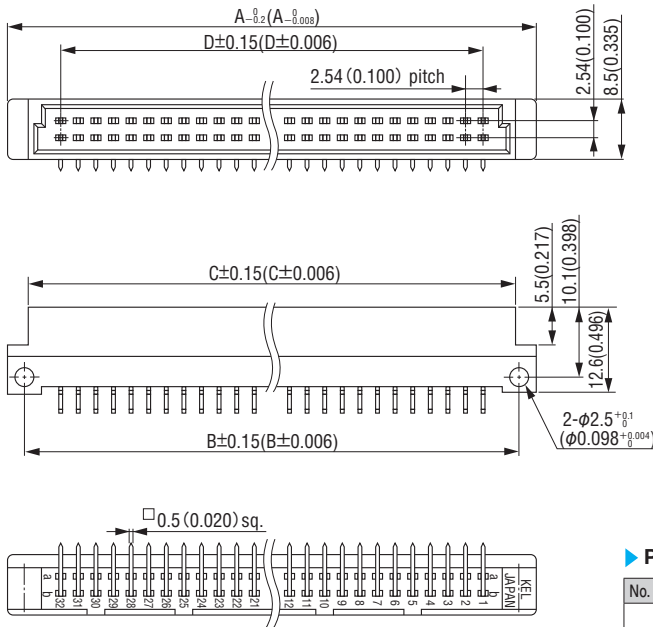
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
48	8440-048-284□-N	58.34 (2.297)	53.34 (2.100)	44.26 (1.743)	38.10 (1.500)	165
96	8440-096-284□-N	98.98 (3.897)	93.98 (3.700)	84.90 (3.343)	78.74 (3.100)	95

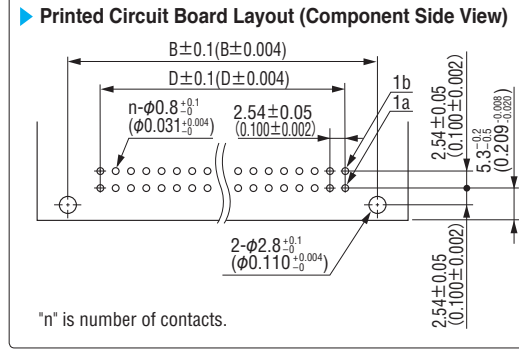


8301-□□□-290-N (Plug, Right angle, 2 rows)

Unit : mm(inch)



"n" is number of contacts.



"n" is number of contacts.

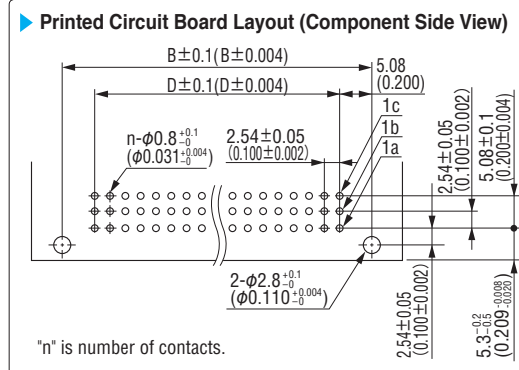
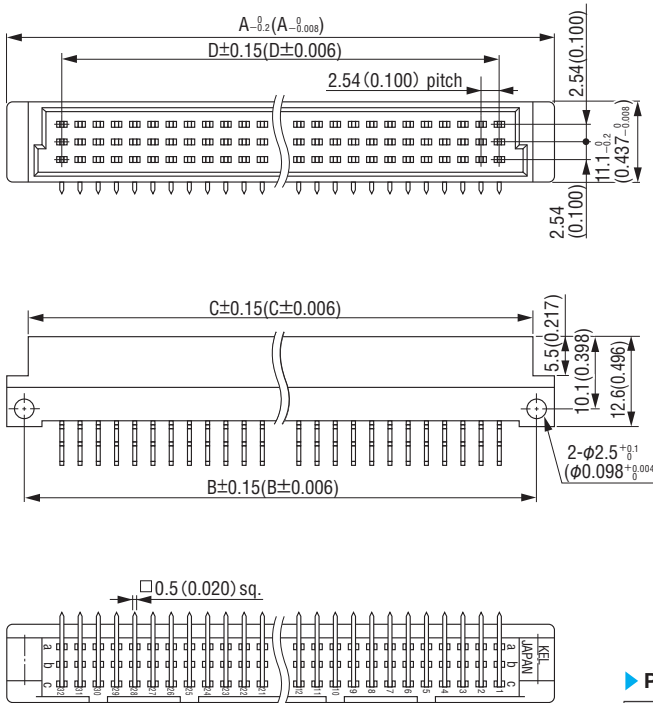
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
32	8301-032-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	280
50	8301-050-290-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	60.96 (2.400)	210
64	8301-064-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	165

Packaging style
Other

8301-□□□-290-N (Plug, Right angle, 3 rows)

Unit : mm(inch)



"n" is number of contacts.

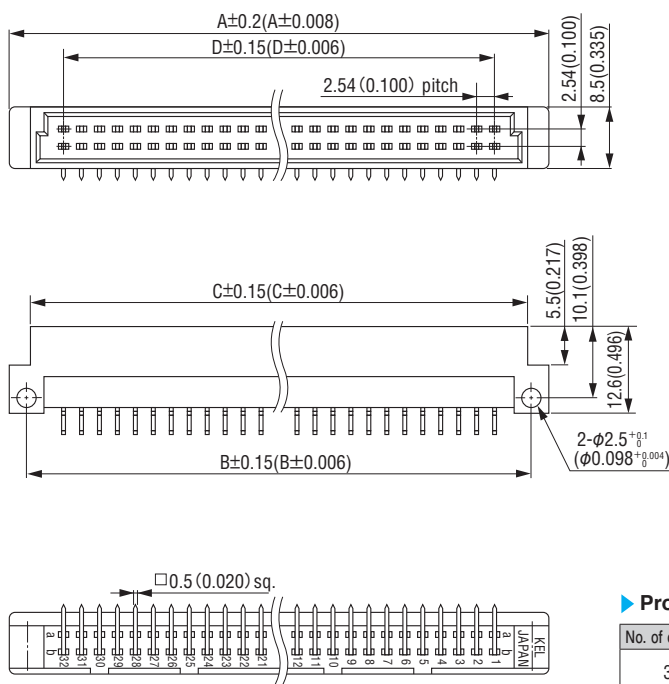
Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
48	8301-048-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	180
96	8301-096-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	90

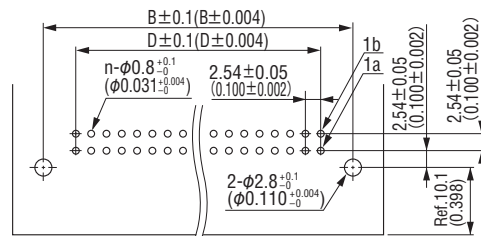
Packaging style
Other

8311-□□□-290-N (Plug, Right angle, Flush mounting, 2 rows)

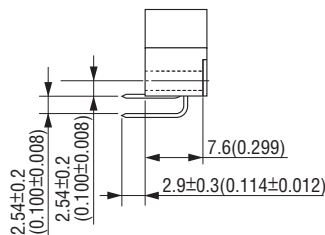
Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.



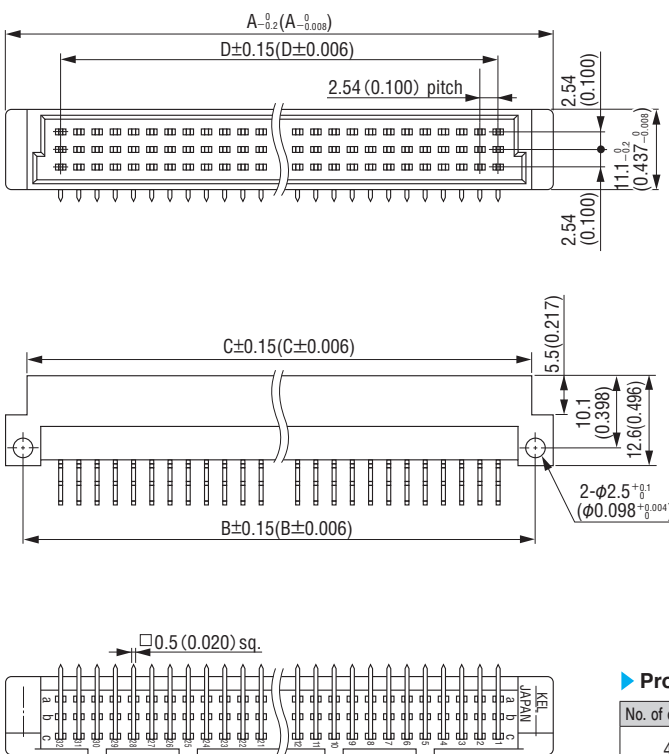
Packaging style
Other

Product Table / Dimensions

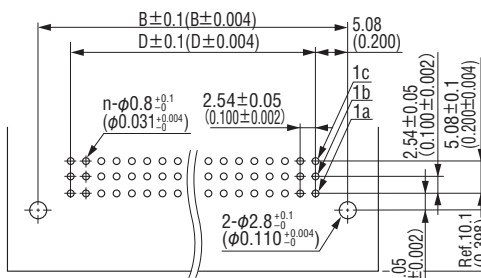
No. of contacts	Part Number	A	B	C	D	Number of packaging
32	8311-032-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	280
50	8311-050-290-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	60.96 (2.400)	210
64	8311-064-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	165

8311-□□□-290-N (Plug, Right angle, Flush mounting, 3 rows)

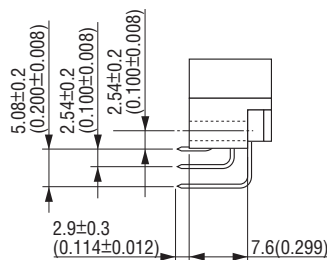
Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



"n" is number of contacts.



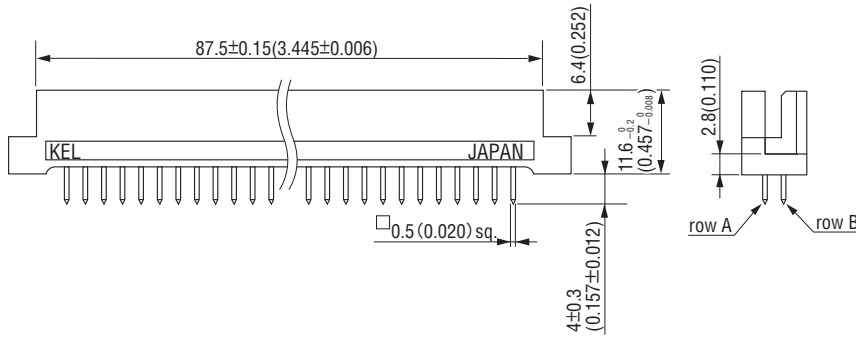
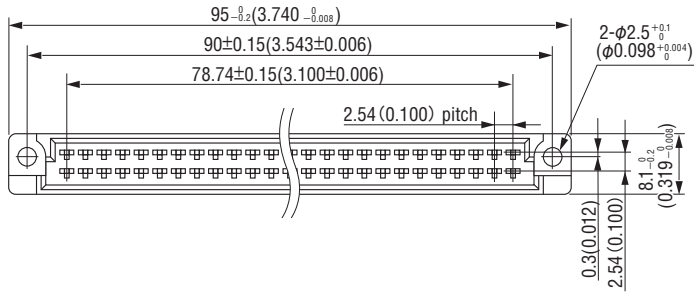
Packaging style
Other

Product Table / Dimensions

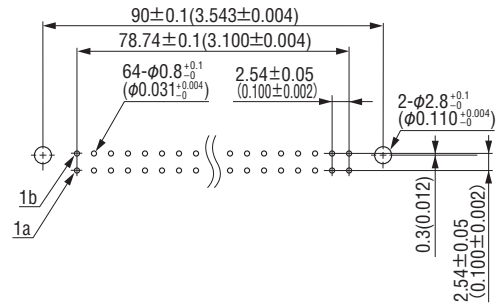
No. of contacts	Part Number	A	B	C	D	Number of packaging
48	8311-048-290-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	180
96	8311-096-290-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	78.74 (3.100)	90

8401-064-292-N (Plug, Straight, 2 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



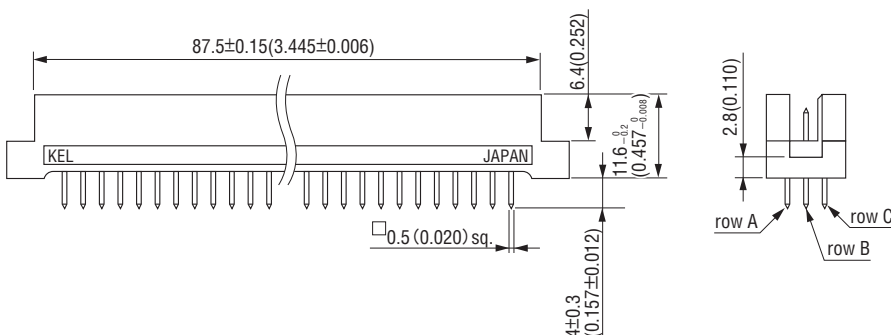
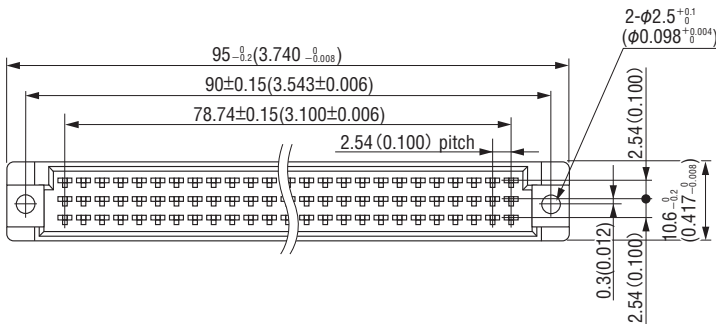
Packaging style
Other

Product Table

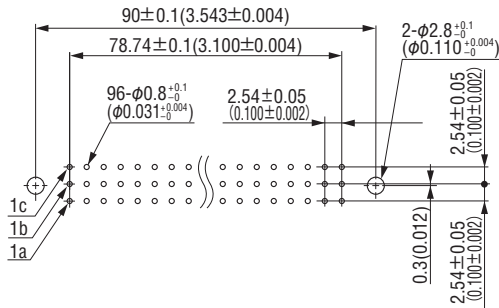
No. of contacts	Part Number	Number of packaging
64	8401-064-292-N	180

8401-096-292-N (Plug, Straight, 3 rows)

Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



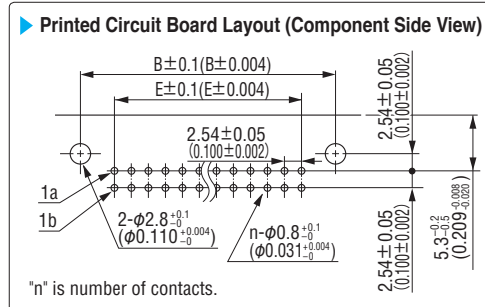
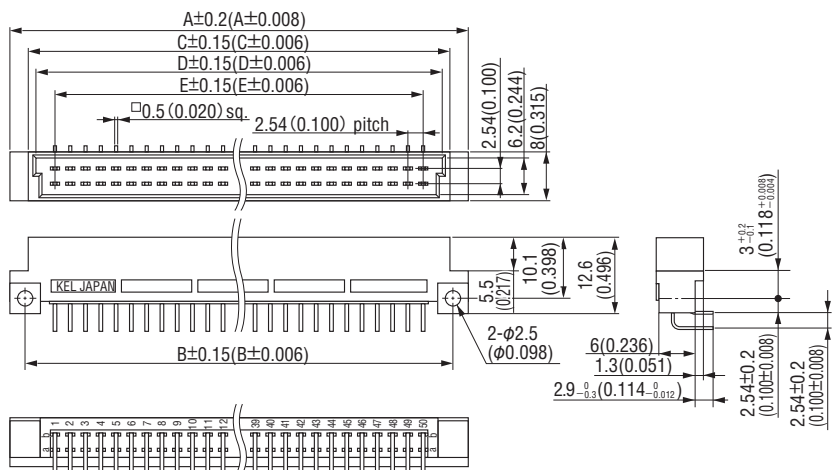
Packaging style
Other

Product Table

No. of contacts	Part Number	Number of packaging
96	8401-096-292-N	140

8331-□□□-294□-□-N (Plug, Right angle, 2 rows)

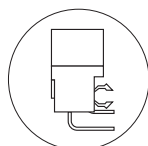
Unit : mm(inch)



Packaging style
Other

Product Table / Dimensions

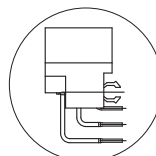
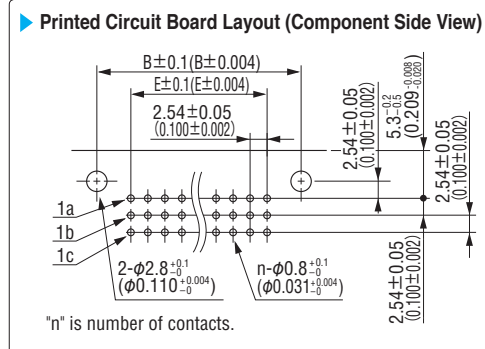
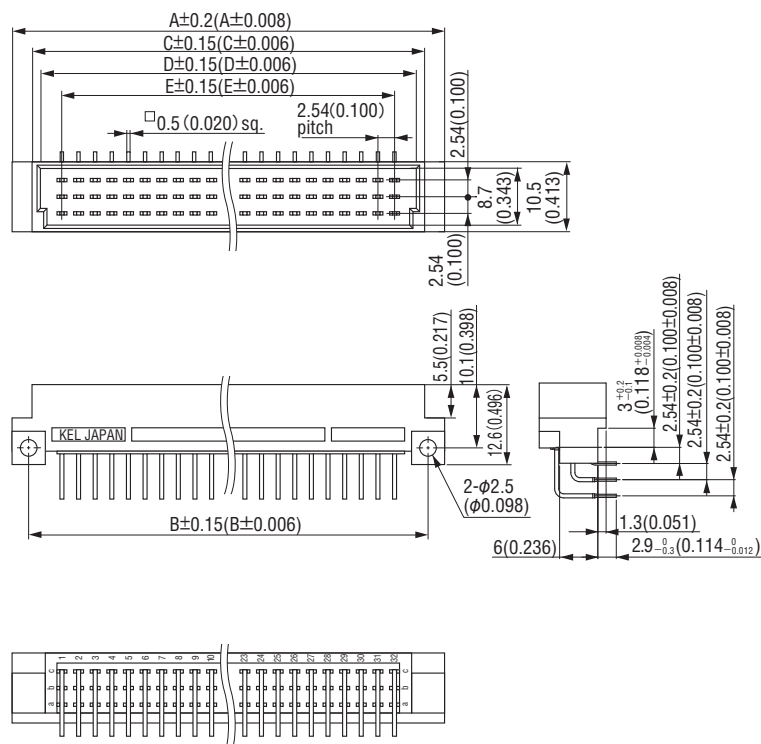
No. of contacts	Part Number	A	B	C	D	E	Number of packaging
32	8331-032-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	38.10 (1.500)	38.10 (1.500)	300
44	8331-044-294□-□-N	68.50 (2.697)	63.50 (2.500)	62.10 (2.445)	59.90 (2.358)	53.34 (2.100)	260
50	8331-050-294□-□-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	67.52 (2.658)	60.96 (2.400)	240
64	8331-064-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	180
90	8331-090-294□-□-N	126.92 (4.997)	121.92 (4.800)	120.52 (4.745)	118.32 (4.658)	111.76 (4.400)	130
100	8331-100-294□-□-N	139.62 (5.497)	134.62 (5.300)	133.22 (5.245)	131.02 (5.158)	124.46 (4.900)	120



■ (Option) With hooks
Recommended PWB
thickness : 1.6mm (0.063")

8331-□□□-294□-□-N (Plug, Right angle, 3 rows)

Unit : mm(inch)



■ (Option) With hooks
Recommended PWB
thickness : 1.6mm (0.063")

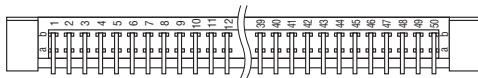
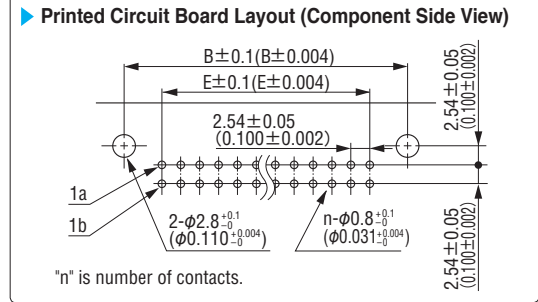
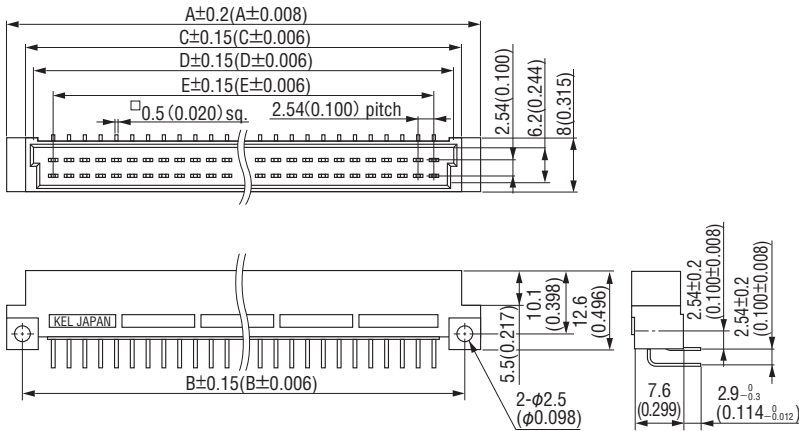
Packaging style
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
48	8331-048-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	44.66 (1.758)	38.10 (1.500)	180
96	8331-096-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	100

8341-□□□-294□-□-N (Plug, Right angle, Flush mounting, 2 rows)

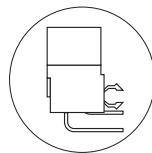
Unit : mm (inch)



Packaging style
Other

Product Table / Dimensions

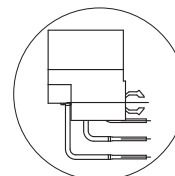
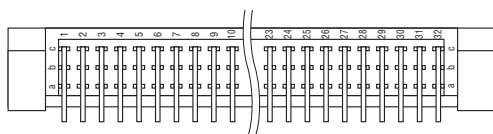
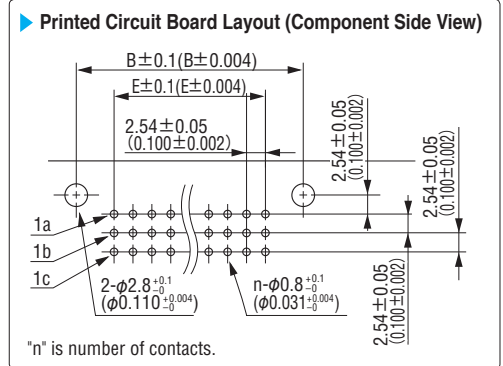
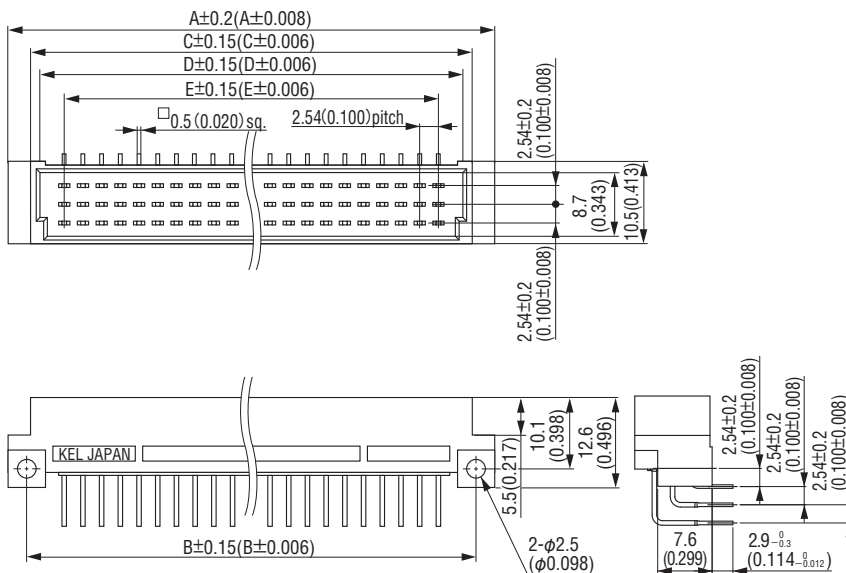
No. of contacts	Part Number	A	B	C	D	E	Number of packaging
32	8341-032-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	44.66 (1.758)	38.10 (1.500)	300
44	8341-044-294□-□-N	68.50 (2.697)	63.50 (2.500)	62.10 (2.445)	59.90 (2.358)	53.34 (2.100)	260
50	8341-050-294□-□-N	76.12 (2.997)	71.12 (2.800)	69.72 (2.745)	67.52 (2.658)	60.96 (2.400)	240
64	8341-064-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	180
90	8341-090-294□-□-N	126.92 (4.997)	121.92 (4.800)	120.52 (4.745)	118.32 (4.658)	111.76 (4.400)	130
100	8341-100-294□-□-N	139.62 (5.497)	134.62 (5.300)	133.22 (5.245)	131.02 (5.158)	124.46 (4.900)	120



■ (Option) With hooks
 Recommended PWB thickness : 1.6mm (0.063")

8341-□□□-294□-□-N (Plug, Right angle, Flush mounting, 3 rows)

Unit : mm (inch)



■ (Option) With hooks
 Recommended PWB thickness : 1.6mm (0.063")

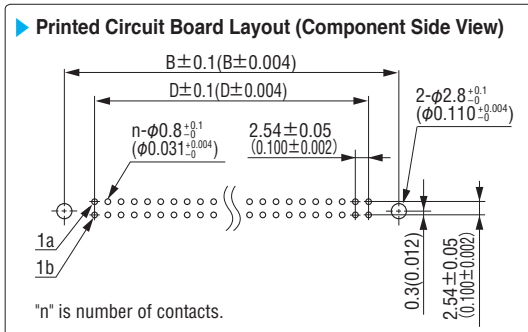
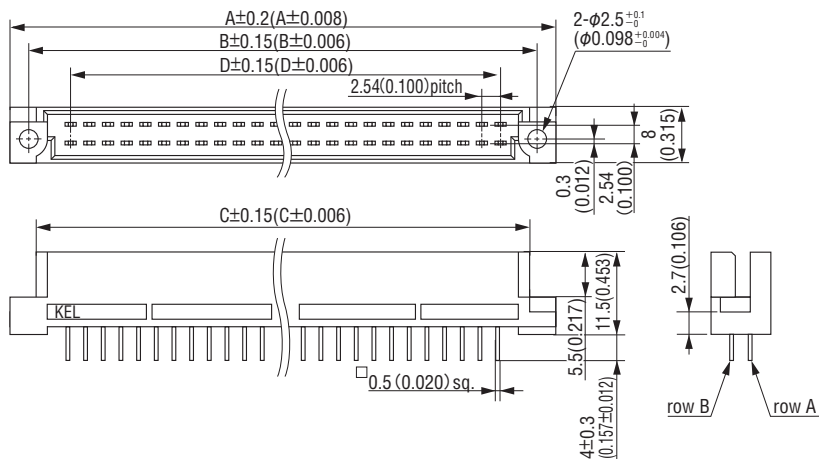
Packaging style
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
48	8341-048-294□-□-N	53.26 (2.097)	48.26 (1.900)	46.86 (1.845)	44.66 (1.758)	38.10 (1.500)	180
96	8341-096-294□-□-N	93.90 (3.697)	88.90 (3.500)	87.50 (3.445)	85.30 (3.358)	78.74 (3.100)	100

8431-□□□-294□-N (Plug, Straight, 2 rows)

Unit : mm(inch)



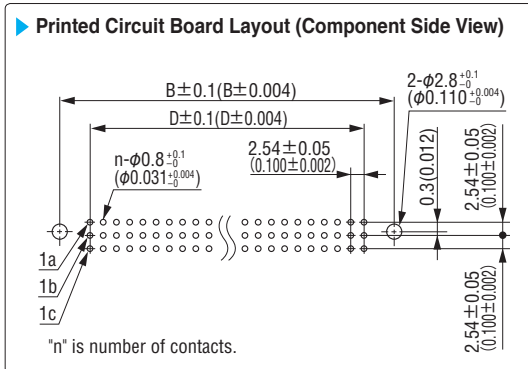
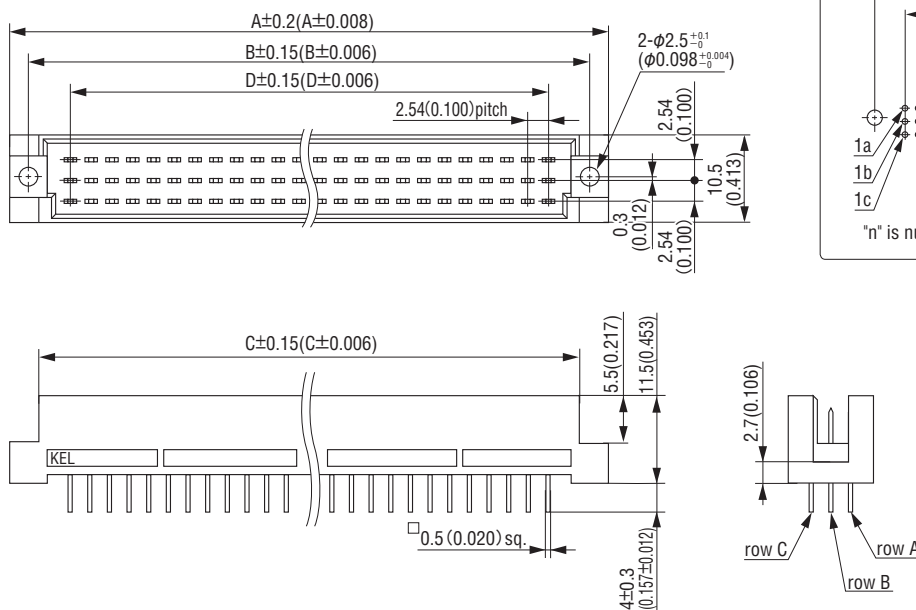
Packaging style
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
32	8431-032-294□-N	53.26 (2.097)	49.36 (1.943)	46.86 (1.845)	38.10 (1.500)	300
44	8431-044-294□-N	68.50 (2.697)	64.60 (2.543)	62.10 (2.445)	53.34 (2.100)	260
50	8431-050-294□-N	76.12 (2.997)	72.22 (2.843)	69.72 (2.745)	60.96 (2.400)	240
64	8431-064-294□-N	93.90 (3.697)	90.00 (3.543)	87.50 (3.445)	78.74 (3.100)	180
90	8431-090-294□-N	126.92 (4.997)	123.02 (4.843)	120.52 (4.745)	111.76 (4.400)	120
100	8431-100-294□-N	139.62 (5.497)	135.72 (5.343)	133.22 (5.245)	124.46 (4.900)	120

8431-□□□-294□-N (Plug, Straight, 3 rows)

Unit : mm(inch)



Packaging style
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	Number of packaging
48	8431-048-294□-N	53.26 (2.097)	49.36 (1.943)	46.86 (1.845)	38.10 (1.500)	240
96	8431-096-294□-N	93.90 (3.697)	90.00 (3.543)	87.50 (3.445)	78.74 (3.100)	140

Vertical mating

Unit : mm(inch)

◆ 2 rows

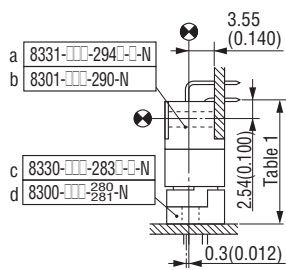


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 3 rows

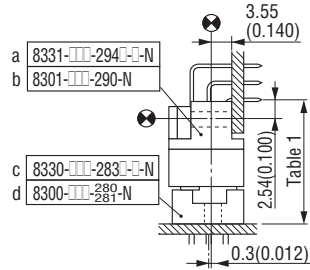


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 2 rows

Table2	c	d
a	5.22 (0.206)	5.22 (0.206)
b	5.22 (0.206)	5.22 (0.206)

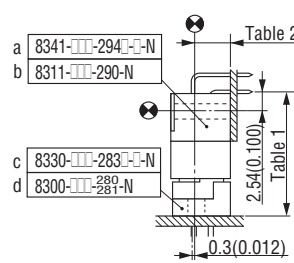


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 3 rows

Table2	c	d
a	5.20 (0.205)	5.20 (0.205)
b	5.25 (0.207)	5.25 (0.207)

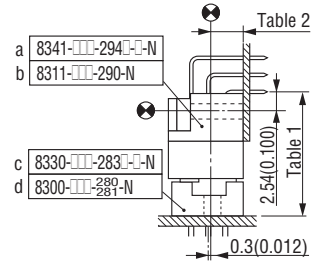


Table1	c	d
a	17.84 (0.702)	17.74 (0.698)
b	17.84 (0.702)	17.74 (0.698)

◆ 2 rows

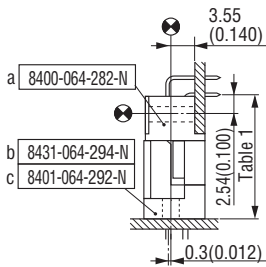


Table1	c	d
a	17.94 (0.706)	18.04 (0.710)

◆ 3 rows

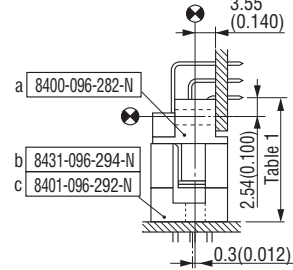


Table1	c	d
a	17.94 (0.706)	18.04 (0.710)

◆ 2 rows

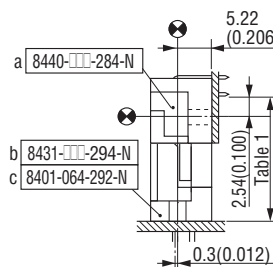


Table1	c	d
a	17.81 (0.701)	17.91 (0.705)

◆ 3 rows

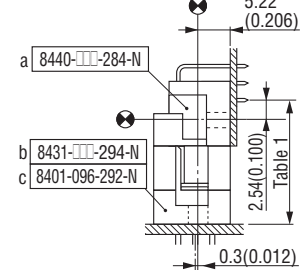
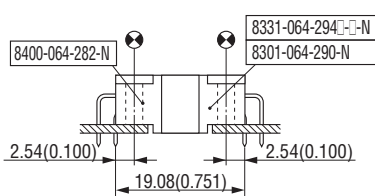


Table1	c	d
a	17.81 (0.701)	17.91 (0.705)

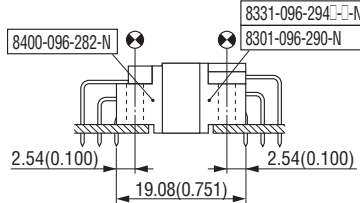
Horizontal mating

Unit : mm(inch)

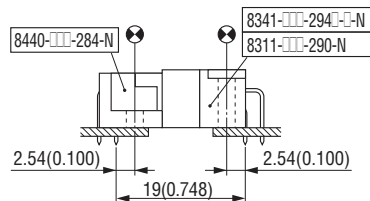
◆ 2 rows



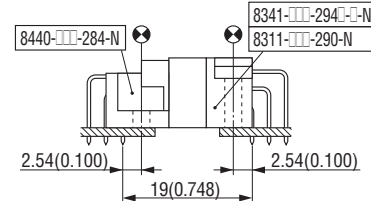
◆ 3 rows



◆ 2 rows



◆ 3 rows



Stacked mating

Unit : mm(inch)

◆ 2 rows

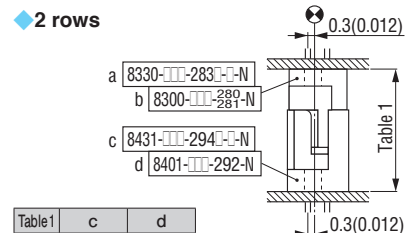


Table1	c	d
a	16.7 (0.657)	16.8 (0.661)
b	16.6 (0.654)	16.7 (0.657)

◆ 3 rows

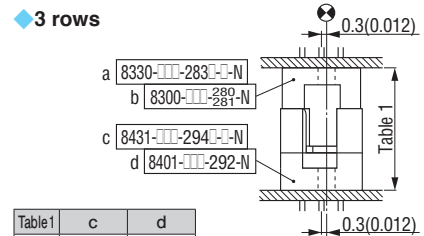


Table1	c	d
a	16.7 (0.657)	16.8 (0.661)
b	16.6 (0.654)	16.7 (0.657)