

DUS SERIES

0.4mm PITCH FLOATING CONNECTOR FOR 16Gbps HIGH-SPEED TRANSMISSION



FEATURES

- ▶ Transmission characteristics that support high-speed serial transmission of 16 Gbps (NRZ, Sdd21: -3dB, @8GHz).
- ▶ Stack height is 3mm.
- ▶ Floating amount ± 0.4 mm in the XY directions.
- ▶ The effective mating length of 0.8mm.
- ▶ 40, 140 and 200 pin available.
*80, 100, 120, 160 and 180 pin under planning, please ask local sales for inquiry.
- ▶ Stacked mating is available.
- ▶ Operating temperature up to +125°C.
- ▶ Pattern wiring available beneath connector due to bottom side of receptacle covered with insulator.

ORDER CODE

DUS00- **S-T**

① ② ③ ④

*Please order in multiples of the quantity per package.

① **[Type]** Receptacle **DUS00** : Without positioning posts

② **[Number of contacts]** **040** : 40 pin **140** : 140 pin **200** : 200 pin

*80, 100, 120, 160, and 180 pin are under planning, please contact our sales representative.

③ **[Contact tail style]** **S** : Straight

④ **[Anti-dust tape]** **T** : With anti-dust tape

ORDER CODE

DUS10- **S-3-T**

① ② ③ ④ ⑤

*Please order in multiples of the quantity per package.

① **[Type]** Plug **DUS10** : Without positioning posts

② **[Number of contacts]** **040** : 40 pin **140** : 140 pin **200** : 200 pin

*80, 100, 120, 160, and 180 pin are under planning, please contact our sales representative.

③ **[Contact tail style]** **S** : Straight

④ **[Stacked height]** **3** : 3 mm

⑤ **[Anti-dust tape]** **T** : With anti-dust tape

SPECIFICATIONS

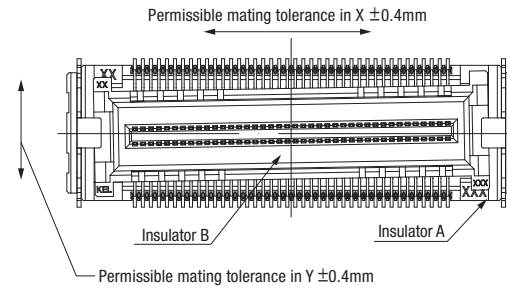
Material and plating		Electrical Characteristics	
Insulator material	Glass-filled LCP(UL94V-0), Black	Rated current	0.4A per contact (In the case of simultaneously energizing: 60 pin or less)
Contact material	Copper alloy		
Contact plating	(Contact area) Gold over Nickel (Terminal area) Gold over Nickel	Contact resistance	80mΩ max.
Retention clip material	Copper alloy	Dielectric withstanding voltage	200V AC for 1 minute
Retention clip plating	Tin over Nickel	Insulation resistance	100MΩ min. at 250V DC
Material of anti-dust tape	Polyimid	Operating temperature	-40°C to +125°C

*Please contact our sales representative about the case of simultaneously energizing

Floating structure

When the connector is mounted on the printed circuit board, a position error in the two directions of horizontal and vertical (XY direction) may occur at both connectors. In addition, if each printed circuit board is fixed to a case by screws after mating connectors, the connectors may have to compensate for the position error because a gap occurs during screwing the printed circuit board. A connector having a tolerance to compensate for such an error or gap caused by vibration is called a floating connector.

The DUS series is a 0.4mm fine pitch connector with $\pm 0.4\text{mm}$ floating structure and ensures sufficient compensation for position errors.

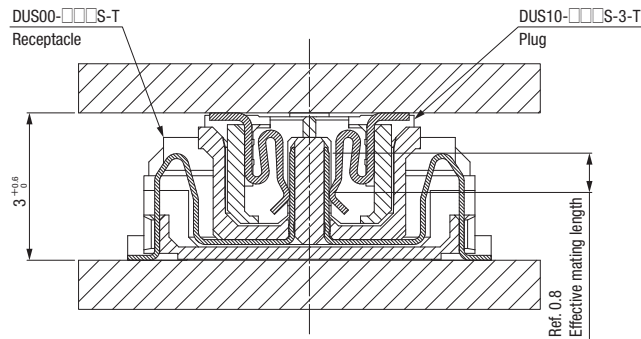


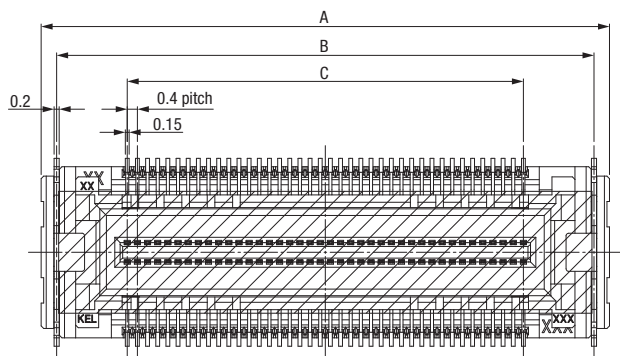
Mating drawing

Unit : mm

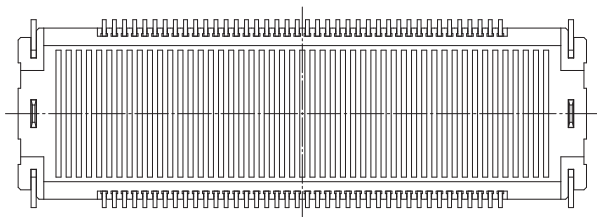
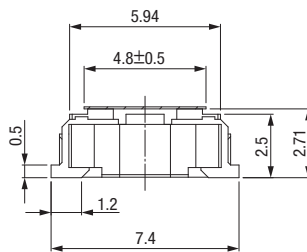
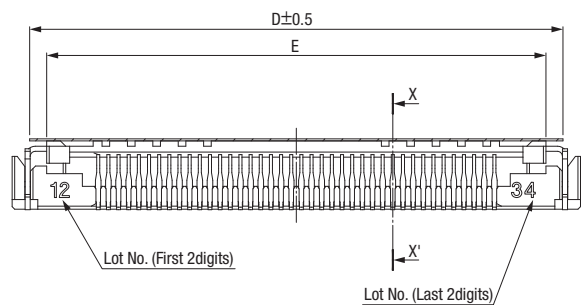
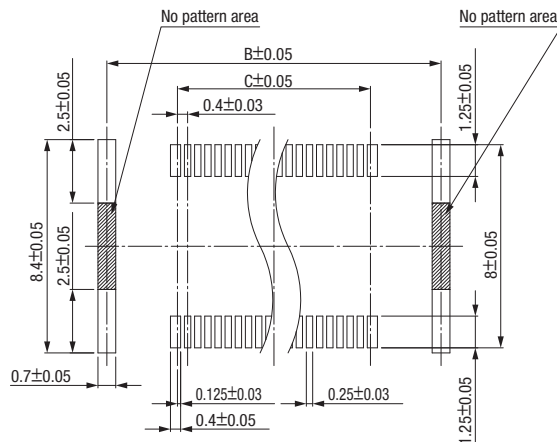
◆ Stacked mating

Stack height : 3mm

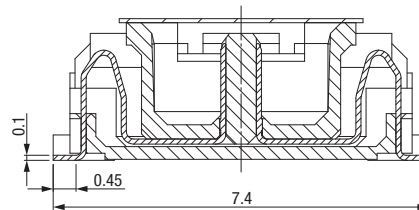




▶ Printed Circuit Board layout (Component side view)



X-X' Cross section



Packaging style

Embossed tape

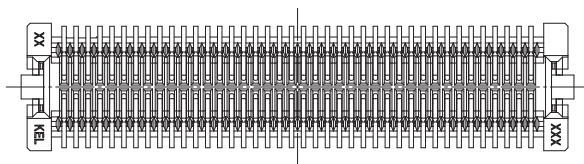
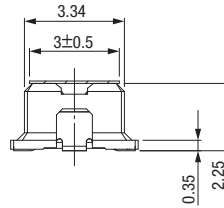
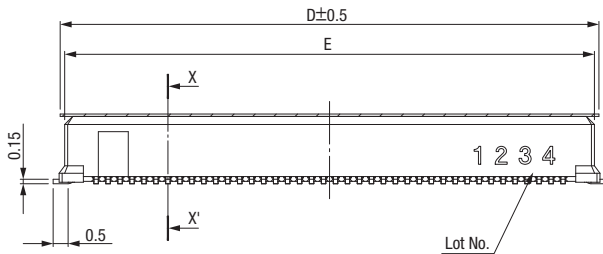
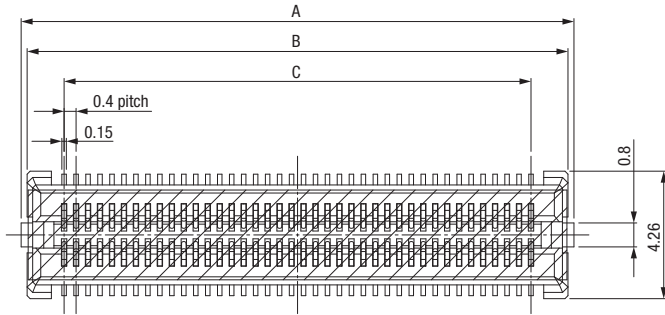
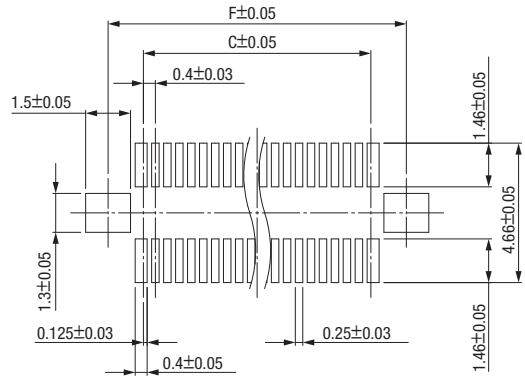
▶ Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	No. of packaging
40	DUS00-040S-T	14.38	13.16	7.6	13	11.66	1,800
140	DUS00-140S-T	34.38	33.16	27.6	33	31.66	1,800
200	DUS00-200S-T	46.38	45.16	39.6	45	43.66	1,800

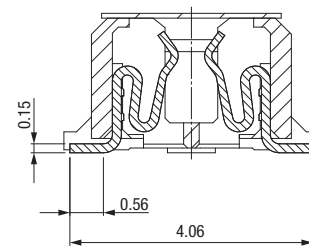
DUS10-□□□S-3-T (Plug, Straight)

Unit : mm

▶ Printed Circuit Board layout (Component side view)



X-X' Cross section



▶ Product table / Dimensions

No. of contacts	Part number	A	B	C	D	E	F	No. of packaging
40	DUS10-040S-3-T	10.47	10.07	7.6	10	17.7	9.97	3,200
140	DUS10-140S-3-T	30.47	30.07	27.6	30	29.7	29.97	3,200
200	DUS10-200S-3-T	42.47	42.07	39.6	42	41.7	41.97	3,200

Packaging style

Embossed tape