

DT-E SERIES

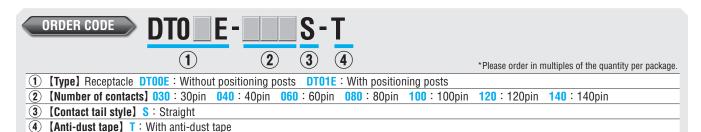


COMPLIANT WITH SATA Rev3.0 REQUIREMENTS, 0.5mm PITCH FLOATING CONNECTOR / TYPE WITH POWER TERMINAL



FEATURES

- Compatible with high-speed serial transmission equivalent to SATA standard. The transmission characteristics meet all the required standards of SATA Rev3.0. (Differential impedance: 100Ω±15%)
- ► With 4 power contacts (6.0A per contact)
- ▶ The floating amount is secured at ±0.7mm in the XY direction.
- ▶ Highly reliable design with effective mating length of 1.5mm.
- ▶ With or without positioning posts.
- Seven types of signal terminals are available, ranging from 30 to 140 nins
- ▶ The connection type is stacked mating
- ▶ Stack heights range from 8mm to 30mm.



ORDER CODE DT1 E- S- T
1 2 3 4 5 *Please order in multiples of the quantity per package.
1 [Type] Plug DT10E: Without positioning posts DT11E: With positioning posts
2 [Number of contacts] 030: 30pin 040: 40pin 060: 60pin 080: 80pin 100: 100pin 120: 120pin 140: 140pin
3 [Contact tail style] S: Straight
4 [Stacked height] (DTO E- DD S-T Mated situation) 8:8mm 10:10mm 15:15mm 20:20mm
(DT0 □ E- □□□ FS-10-T Mated situation) 8 :18mm 10 :20mm 15 :25mm 20 :30mm
(5) [Anti-dust tape] T: With anti-dust tape
*For details on DTO F-DD FS-10-T please refer to the separate "DT-F-FS series" catalog

SPECIFICATIONS

Ma	aterial and plating	Electrical characteristics				
Insulator material	Glass-filled LCP(UL94V-0), Black	Rated current *1	0.4A per contact (Signal contact)			
Signal/Power contact material	Copper alloy	Haleu current	6.0A per contact (Power contact)			
Signal/Power contact plating	(Contact area) Gold over Nickel (Terminal area) Gold over Nickel	Contact resistance	80mΩ max. (Signal contact) 20mΩ max. (Power contact)			
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*2	-40℃ to +105℃			

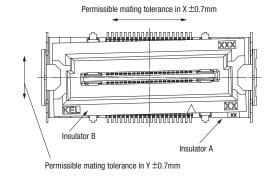
^{*1} The rated current may be higher than the indicated current capacity depending on the number of contacts and the contact tail style. Please contact our sales representative for details.

^{*2} If you require a high heat resistant type (125°C compatible product), please contact our sales representative.



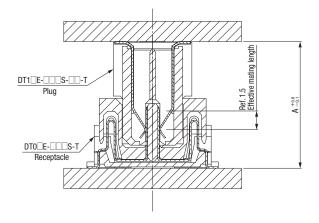
Floating structure

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 DT-E series is a 0.5mm fine pitch connector with ±0.7mm floating structure and ensures sufficient compensation for position errors.



Mating drawing Unit: mm

Stacked mating



Product table / Dimensions

Part number	Α
DT1□E-□□□S-8-T	8
DT1□E-□□□S-10-T	10
DT1□E-□□□S-15-T	15
DT1□E-□□□S-20-T	20

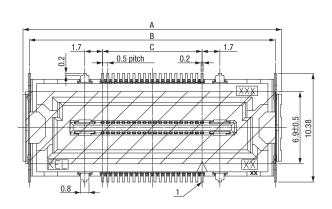
Stacked mating / Product table

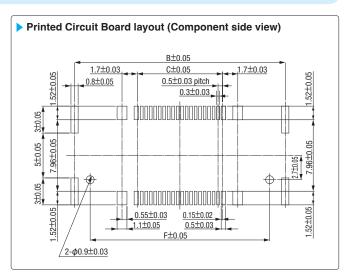
Stocked beight	Part	Amount of	No. of contacts								
Stacked height	Receptacle	Plug	movement	30	40	60	80	100	120	140	
8mm		DT1□E-□□□S-8-T		1	1	1	1	✓	1	1	
10mm	DT0□E-□□□S-T	DT1□E-□□□S-10-T	±0.7mm	1	1	1	1	1	1	1	
15mm		DT1□E-□□□S-15-T		1	1	1	1	1	1	1	
18mm	DT0□E-□□□FS-10-T	DT1□E-□□□S-8-T	±1.2mm	1	1	1	1	1	1	1	
20mm	DT0□E-□□□S-T	DT1□E-□□□S-20-T	±0.7mm	1	1	1	1	1	1	/	
20111111		DT1□E-□□□S-10-T		1	1	1	1	1	1	1	
25mm	DT0□E-□□□FS-10-T	DT1□E-□□□S15-T	±1.2mm	1	1	1	1	1	1	1	
30mm		DT1□E-□□□S-20-T		1	1	1	1	1	1	1	

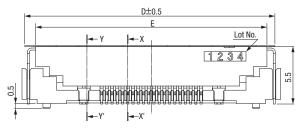


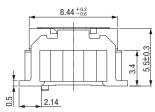
DTO E- CReceptacle, Straight, With power contacts)

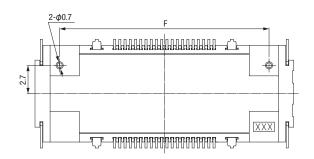
Unit: mm

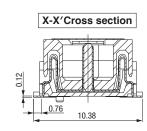


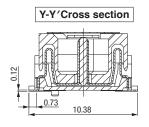












Product table / Dimensions

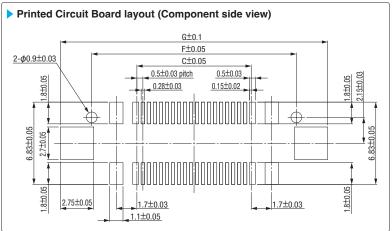
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E	mbossed	tape

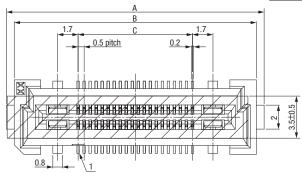
No. of contacts	Part number	Α	В	С	D	Е	F	No. of packaging			
30	DT0□E-030S-T	22.2	20.98	7.0	21.4	19.58	17.5	820			
40	DT0□E-040S-T	24.7	23.48	9.5	23.9	22.08	20.0	820			
60	DT0□E-060S-T	29.7	28.48	14.5	28.9	27.08	25.0	820			
80	DT0□E-080S-T	34.7	33.48	19.5	33.9	32.08	30.0	820			
100	DT0□E-100S-T	39.7	38.48	24.5	38.9	37.08	35.0	820			
120	DT0□E-120S-T	44.7	43.48	29.5	43.9	42.08	40.0	820			
140	DT0□E-140S-T	49.7	48.48	34.5	48.9	47.08	45.0	820			

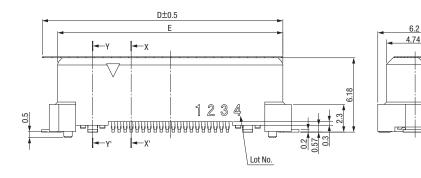


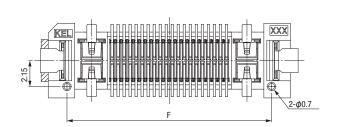
DT1 E- S-8-T (Plug, Straight, With power contacts)

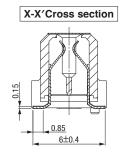
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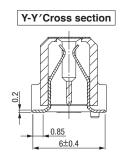












Packaging style Embossed tape

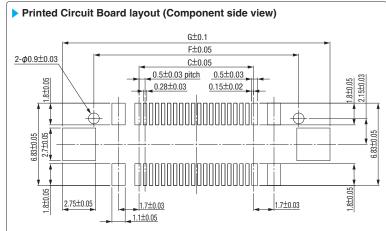
▶ Product table / Dimensions

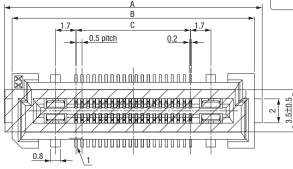
No. of contacts	Part number	Α	В	С	D	Е	F	G	No. of packaging
30	DT1□E-030S-8-T	18.9	17.62	7.0	17.5	16.22	14.5	19.7	750
40	DT1□E-040S-8-T	21.4	20.12	9.5	20.0	18.72	17.0	22.2	750
60	DT1□E-060S-8-T	26.4	25.12	14.5	25.0	23.72	22.0	27.2	750
80	DT1□E-080S-8-T	31.4	30.12	19.5	30.0	28.72	27.0	32.2	750
100	DT1□E-100S-8-T	36.4	35.12	24.5	35.0	33.72	32.0	37.2	750
120	DT1□E-120S-8-T	41.4	40.12	29.5	40.0	38.72	37.0	42.2	750
140	DT1□E-140S-8-T	46.4	45.12	34.5	45.0	43.72	42.0	47.2	750

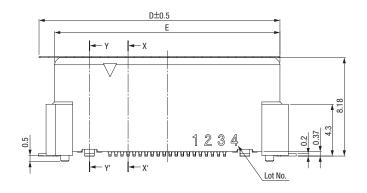


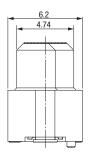
DT1 E- S-10-T (Plug, Straight, With power contacts)

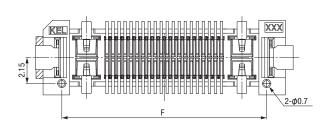
Unit: mm

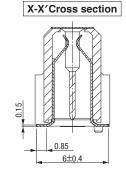


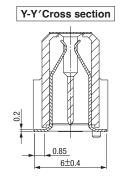












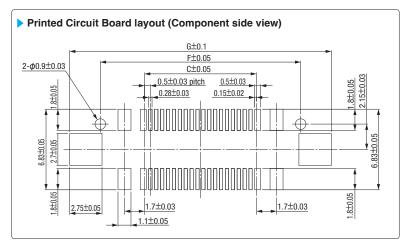
Product table / Dimensions

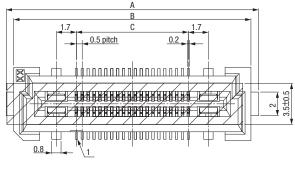
No. of contacts	Part number	Α	В	С	D	Е	F	G	No. of packaging
30	DT1□E-030S-10-T	18.9	17.62	7.0	17.5	16.22	14.5	19.7	600
40	DT1□E-040S-10-T	21.4	20.12	9.5	20.0	18.72	17.0	22.2	600
60	DT1□E-060S-10-T	26.4	25.12	14.5	25.0	23.72	22.0	27.2	600
80	DT1□E-080S-10-T	31.4	30.12	19.5	30.0	28.72	27.0	32.2	600
100	DT1□E-100S-10-T	36.4	35.12	24.5	35.0	33.72	32.0	37.2	600
120	DT1□E-120S-10-T	41.4	40.12	29.5	40.0	38.72	37.0	42.2	600
140	DT1□E-140S-10-T	46.4	45.12	34.5	45.0	43.72	42.0	47.2	600

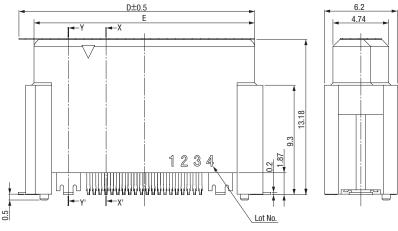
Packaging style Embossed tape

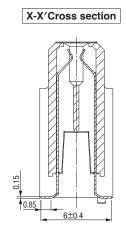
DT1 E- S-15-T (Plug, Straight, With power contacts)

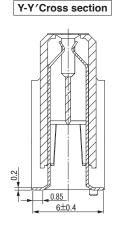
Unit: mm

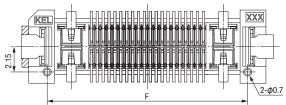












Packaging style Embossed tape

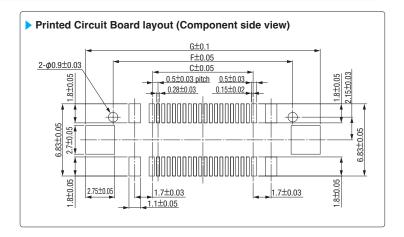
▶ Product table / Dimensions

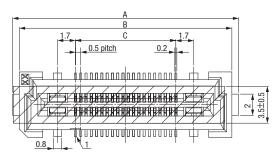
No. of contacts	Part number	Α	В	С	D	Е	F	G	No. of packaging
30	DT1□E-030S-15-T	18.9	17.62	7.0	17.5	16.22	14.5	19.7	360
40	DT1□E-040S-15-T	21.4	20.12	9.5	20.0	18.72	17.0	22.2	360
60	DT1□E-060S-15-T	26.4	25.12	14.5	25.0	23.72	22.0	27.2	360
80	DT1□E-080S-15-T	31.4	30.12	19.5	30.0	28.72	27.0	32.2	360
100	DT1 E-100S-15-T	36.4	35.12	24.5	35.0	33.72	32.0	37.2	360
120	DT1□E-120S-15-T	41.4	40.12	29.5	40.0	38.72	37.0	42.2	360
140	DT1□E-140S-15-T	46.4	45.12	34.5	45.0	43.72	42.0	47.2	360

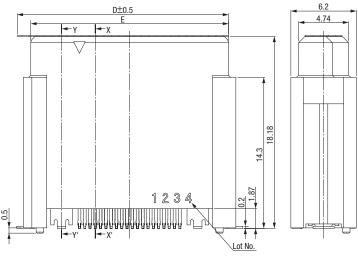


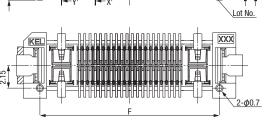
DT1 E- S-20-T (Plug, Straight, With power contacts)

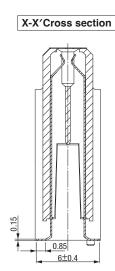
Unit: mm

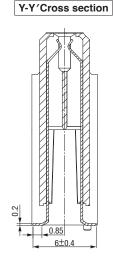












Packaging style Embossed tape

▶ Product table / Dimensions

No. of contacts	Part number	Α	В	С	D	Е	F	G	No. of packaging
30	DT1 E-030S-20-T	18.9	17.62	7.0	17.5	16.22	14.5	19.7	260
40	DT1 E-040S-20-T	21.4	20.12	9.5	20.0	18.72	17.0	22.2	260
60	DT1 E-060S-20-T	26.4	25.12	14.5	25.0	23.72	22.0	27.2	260
80	DT1□E-080S-20-T	31.4	30.12	19.5	30.0	28.72	27.0	32.2	260
100	DT1 E-100S-20-T	36.4	35.12	24.5	35.0	33.72	32.0	37.2	260
120	DT1 E-120S-20-T	41.4	40.12	29.5	40.0	38.72	37.0	42.2	260
140	DT1□E-140S-20-T	46.4	45.12	34.5	45.0	43.72	42.0	47.2	260