DT-E-FS SERIES RoHS Compliant 8Gbps EQUIVALENT TRANSMISSION COMPATIBLE 0.5mm PITCH FLOATING CONNECTOR / WITH POWER CONTACT AND HIGH STACK TYPE (RECEPTACLE HEIGHT 10mm TYPE) FEATURES



- ► High-speed serial transmission equivalent to 8Gbps
- ▶ With 4 power terminals (6.0A per contact)
- ▶ The floating amount is secured at ±1.2mm in the XY direction.
- ▶ Highly reliable design with effective mating length of 1.5mm.
- Seven types of signal contacts are available, ranging from 30 to 140
- The connection type is stacked mating.
- Stack heights range from 18mm to 30mm.

ORDER CODE DTO E - FS - 10 - T								
	1	2	3	4 5)	*Please order in n	nultiples of the quantity per package.	
(1) (Type) Receptacle	DTOOE : Without po	sitioning posts	DT01E	: With position	ning posts			
2 [Number of contacts	3030 : 30pin 04	0 :40pin 060	: 60pin	080 : 80pin	100 : 100pin	120:120pin	140 : 140pin	
3 [Contact tail style]	FS : Flexible straig	ht						
A [Checked bimbh] 10	· 10 mana tura a							

- (4) [Stacked hight] 10 : 10 mm type
- (5) [Anti-dust tape] T: With anti-dust tape

SPECIFICATIONS

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Ма	terial and plating	Electrical characteristics			
Insulator material	Glass-filled LCP(UL94V-0), Black		0.4A per contact (Signal contact)		
Signal/Power contact material	nal/Power contact material Copper alloy		*100 pins or less must be energized at the same time.		
Signal/Power contact plating			6.0A per contact (Power contact)		
	(Contact area) Gold over Nickel (Terminal area) Gold over Nickel	Contact resistance	$80m\Omega$ max (Signal contact) $20m\Omega$ 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	-40℃ to +105℃		

Mating drawing

Stacked mating



Unit : mm

30

Product table / Dimensions Part number Α DT1 E- S-8-T 18 DT1 E- S-10-T 20 DT1_E-____ S-15-T 25

DT1_E-____ S-20-T



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-FS series is a 0.5mm fine pitch connector with $\pm 1.2mm$ floating structure and ensures sufficient compensation for position errors.



Stacked mating / Product table

Stacked height	Part	Amount of	No. of contacts							
Stacken neight	Receptacle	Plug	movement	30	40	60	80	100	120	140
8mm		DT1 E- S-8-T		1	1	1	1	1	1	1
10mm	DT0 E- S-T	DT1_ES-10-T	±0.7mm	1	1	1	1	1	1	1
15mm		DT1_ES-15-T		1	1	1	1	1	1	1
18mm	DT0	DT1 E- S-8-T	±1.2mm	1	1	1	1	1	1	1
00	DT0 E-	DT1_ES-20-T	±0.7mm	1	1	1	1	1	1	1
20mm		DT1_ES-10-T		1	1	1	1	1	1	1
25mm	DT0 E- FS-10- T	DT1 E- DDS15-T	±1.2mm	1	1	1	1	1	1	1
30mm		DT1_ES-20-T		1	1	1	1	1	1	1

DTO E- FS-10-T (Receptacle, Flexible straight, With power contact, Height 10 mm)

Unit : mm



KEL











Y-Y'Cross section



Packaging style Embossed tape

Product table / Dimensions

No. of contacts	Part number	A	В	С	D	Е	F	No. of packaging	
30	DT0 E-030 FS-10-T	24.3	20.4	7.0	21.2	19.2	17.5	240	
40	DT0 E-040FS-10-T	26.8	22.9	9.5	23.7	21.7	20.0	240	
60	DT0 E-060FS-10-T	31.8	27.9	14.5	28.7	26.7	25.0	240	
80	DT0 E-080FS-10-T	36.8	32.9	19.5	33.7	31.7	30.0	240	
100	DT0 E-100 FS-10-T	41.8	37.9	24.5	38.7	36.7	35.0	240	
120	DT0 E-120FS-10-T	46.8	42.9	29.5	43.7	41.7	40.0	240	
140	DT0 E-140FS-10-T	51.8	47.9	34.5	48.7	46.7	45.0	240	



