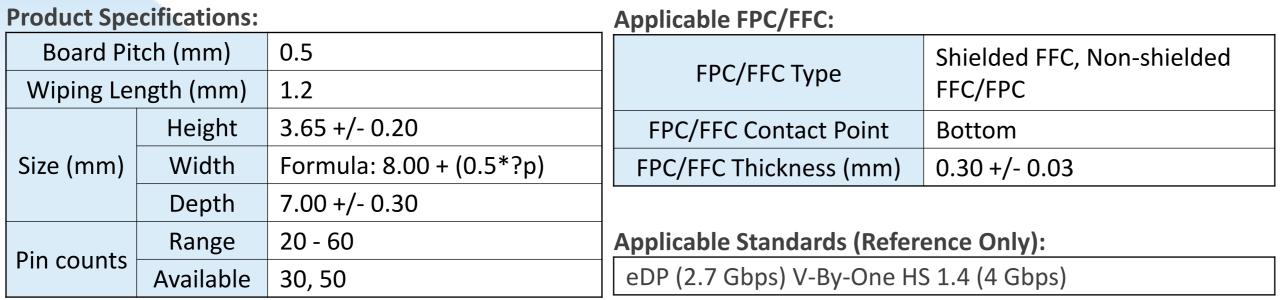
EVAFLEX® 5-SE-G HT

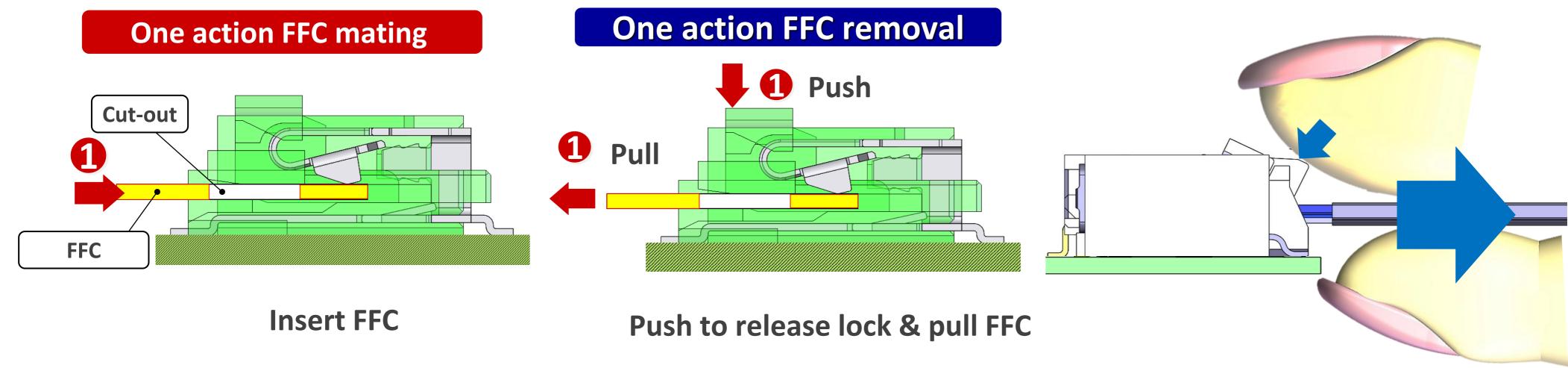
One-handed auto-locking feature, high temperature (125°C), high-speed, horizontal mate, 0.5 mm pitch shielded FFC/FPC connector



^{*} Please inquire for pin counts not listed or outside of the pin count range.

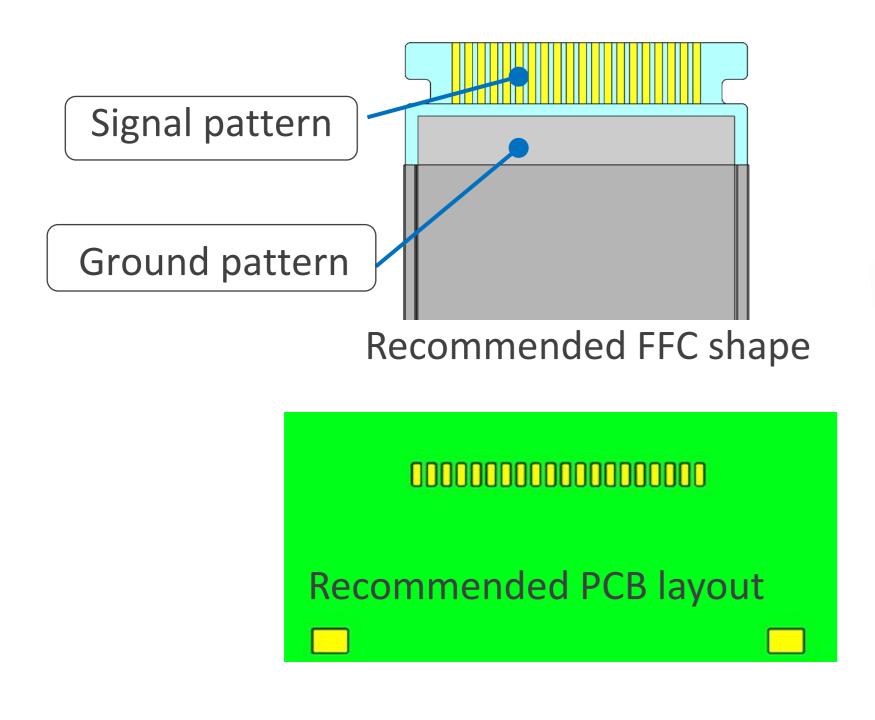


One-handed operational auto-lock design, ideal for hand or robotic assembly

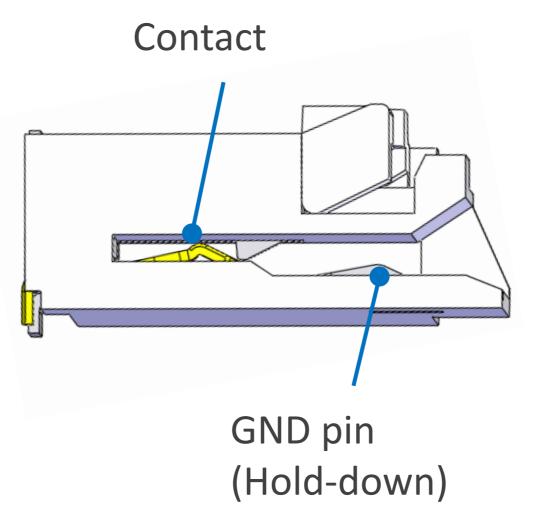


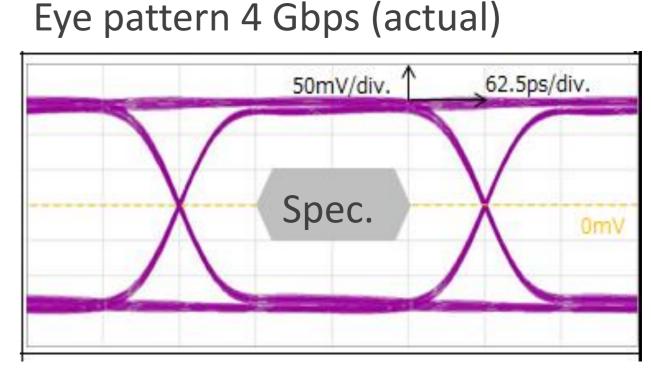
Release lock and pull FFC at same time for one-hand operation

Designed for high-speed transmission with grounding contacts (4+ Gbps V-By-One® HS)



Extended hold down with GND pin for GND connection Target speed: up to 4+ Gbps (V-By-One® HS)

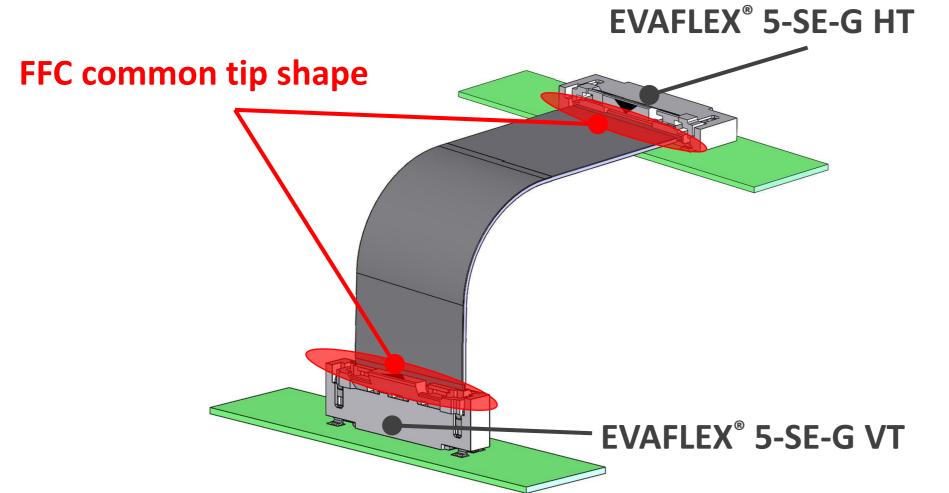




Scalable EVAFLEX® family: Auto-lock connector with many other options available

Vertical mate type using same FFC: EVAFLEX® 5-SE-G VT

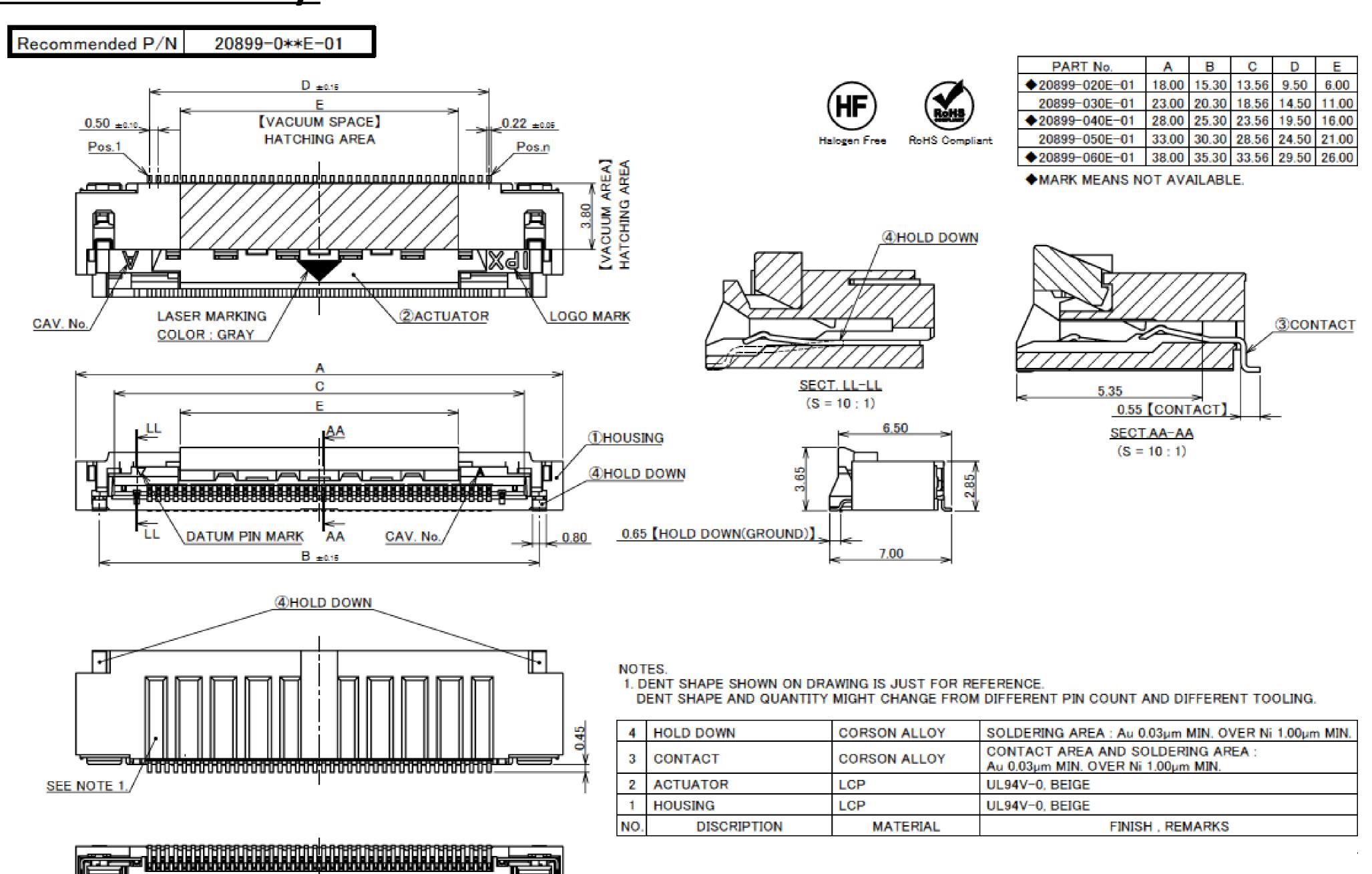
Higher speed and smaller size: EVAFLEX® 5-VS Type CH



	EVAFLEX® 5-SE-G VT	EVAFLEX® 5-VS
Height (mm)	6.60 +/- 0.1	1.90 +/- 0.1
Operation Temperature	~ 125°C	~ 105°C
Reference Performance	V-by-one HS 1.4 (4+ Gbps)	PCIe Gen 3 (8+ Gbps)

Component Parts Details

Connector Assembly



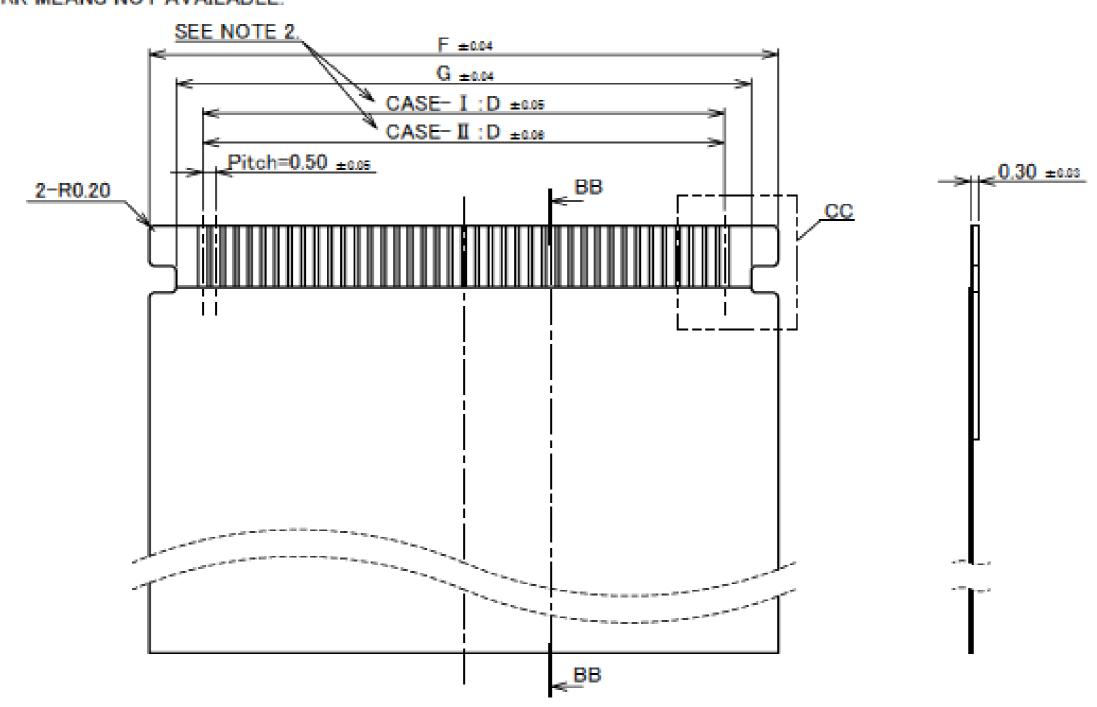
SEE NOTE.1

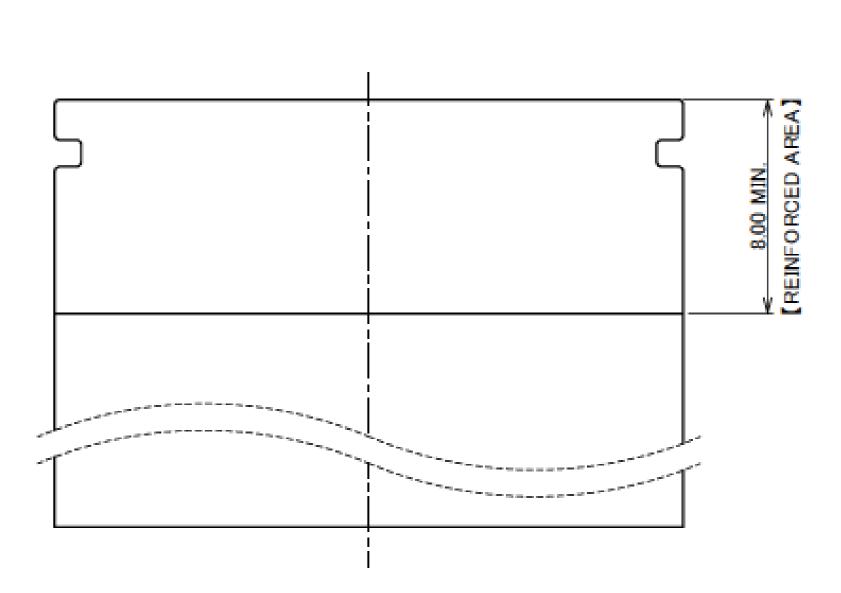
Connector Assembly

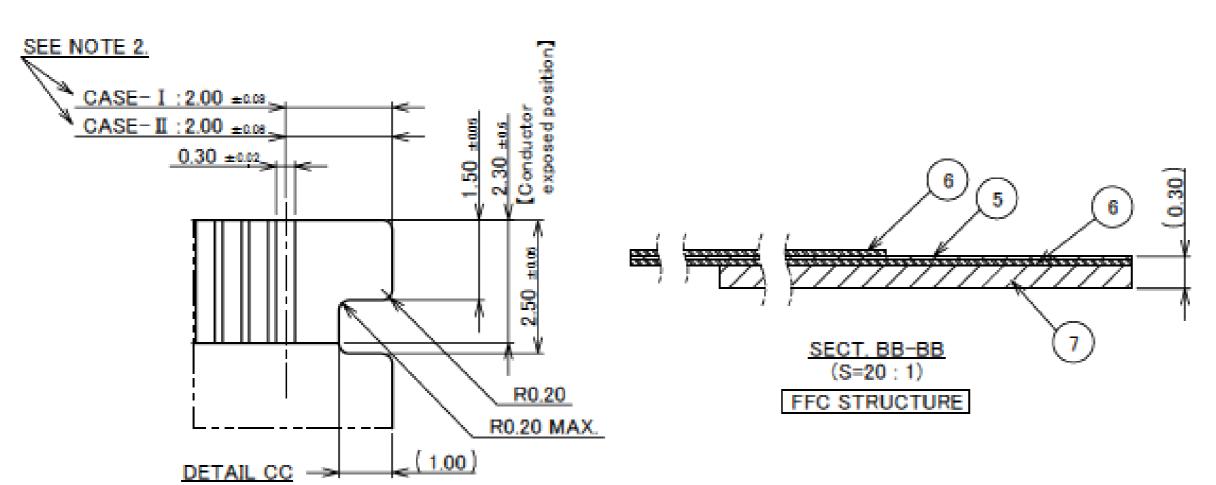
PART No.	D	F	G
◆20899-020E-01	9.50	13.50	11.50
20899-030E-01	14.50	18.50	16.50
◆20899-040E-01	19.50	23.50	21.50
20899-050E-01	24.50	28.50	26.50
▲ 00000 000E 01	00.50	22.50	24.50

RECOMMENDED FFC LAYOUT [NON SHIELDED TYPE]

◆20899-060E-01 | 29.50 | 33.50 | 31.50 ◆MARK MEANS NOT AVAILABLE.







NOTES.

- 2. MANUFACTURE CASE- I or II
- SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

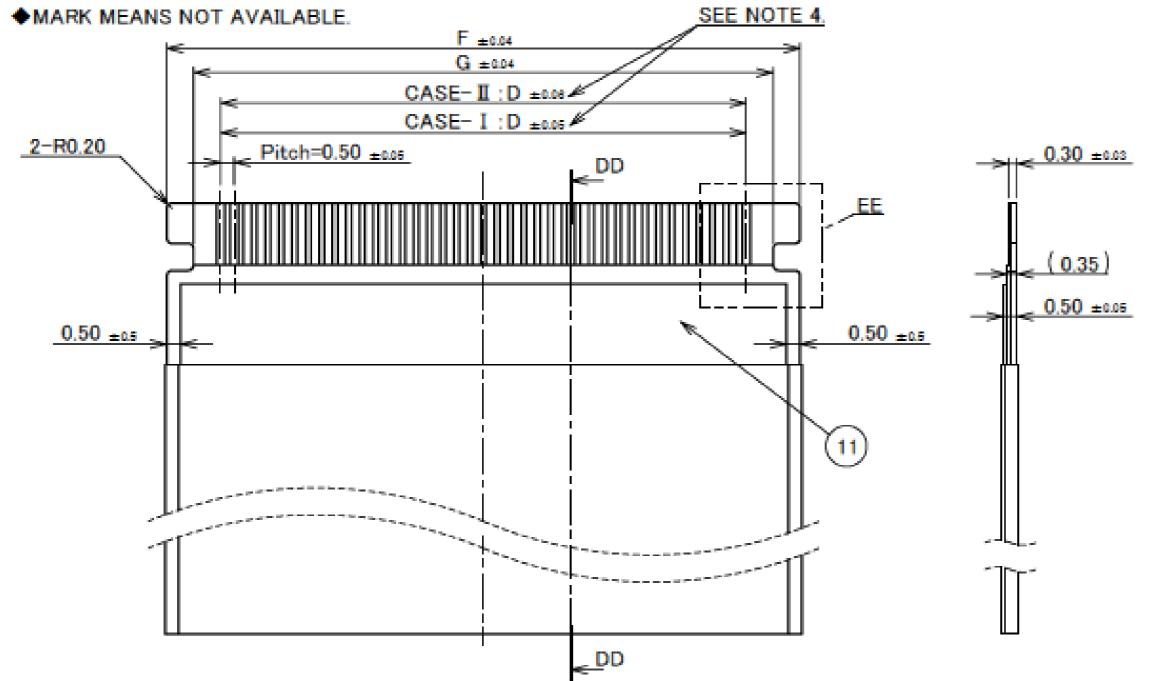
7	7	REINFORCED TAPE	ARBITRARY	
6	6	INSULATION FILM	ARBITRARY	
5	,	CONDUCTOR	COPPER ALLOY	CONTACT AREA : Au 0.05 μ m MIN. OVER N: 0.5 μ m MIN.
NO	o.	COMPONENTS	MATERIAL	FINISH

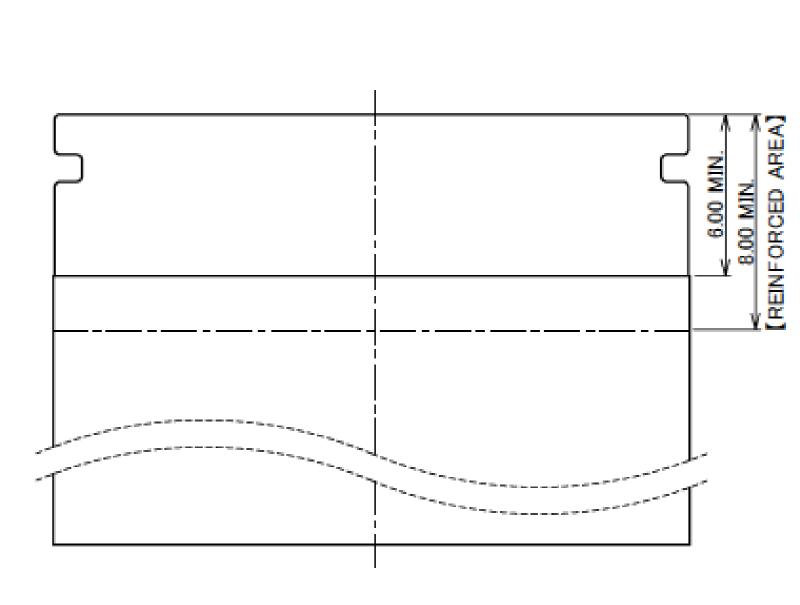
Rev.5

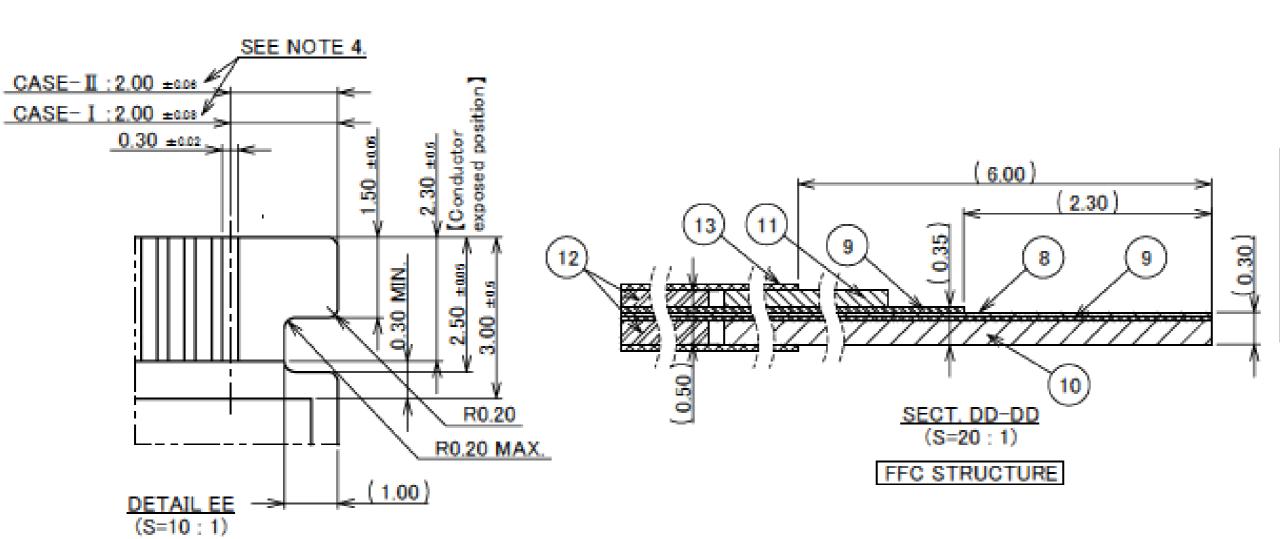
PART No.	D	F	G
◆20899-020E-01	9.50	13.50	11.50
20899-030E-01	14.50	18.50	16.50
◆20899-040E-01	19.50	23.50	21.50
20899-050E-01	24.50	28.50	26.50
◆20899-060E-01	29.50	33.50	31.50

(S=10:1)

RECOMMENDED FFC LAYOUT SHIELDED TYPE







NOTES.
4. MANUFACTURE CASE- I or II

 DIFFERENTIAL IMPEDANCE : 100 ± 10 Ω
 SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF 85°C OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

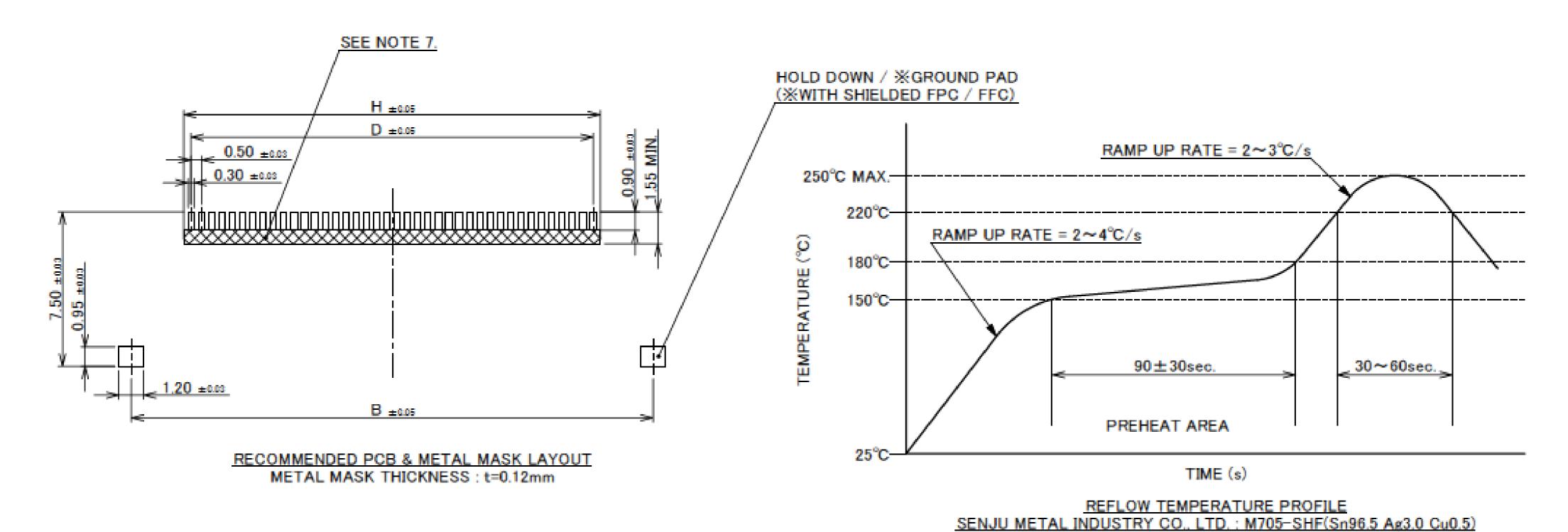
13 SHIELD TAPE METALLIC FILM
12 INTERLAYER ARBITRARY
11 GROUND PLATE METALLIC FILM POLISH or HALF POLISH Sn PLATING
10 REINFORCED TAPE ARBITRARY
9 INSULATION FILM ARBITRARY
8 CONDUCTOR COPPER ALLOY CONTACT AREA: Au 0.05 µm MIN. OVER N: 0.5 µm MIN.
NO. COMPONENTS MATERIAL FINISH

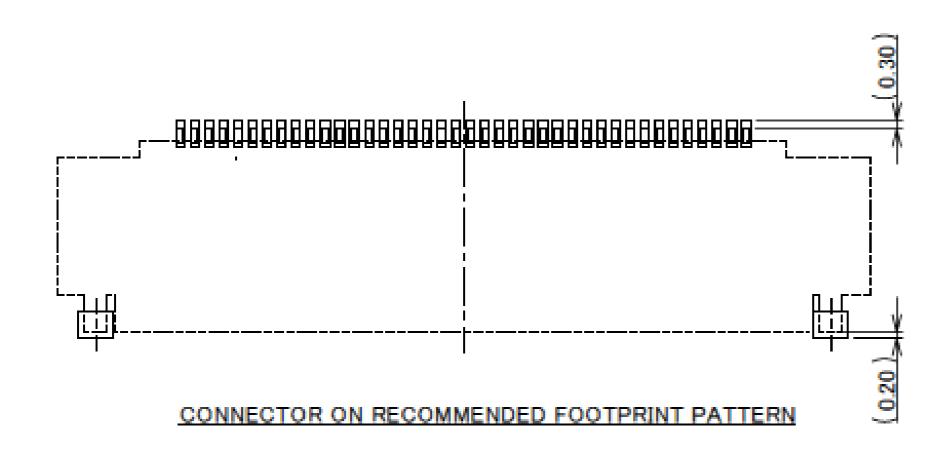
Rev.5

Connector Assembly

PART No.	В	D	Н
◆20899-020E-01	15.30	9.50	10.20
20899-030E-01	20.30	14.50	15.20
◆20899-040E-01	25.30	19.50	20.20
20899-050E-01	30.30	24.50	25.20
◆20899-060E-01	35.30	29.50	30.20

[◆]MARK MEANS NOT AVAILABLE.





NOTES

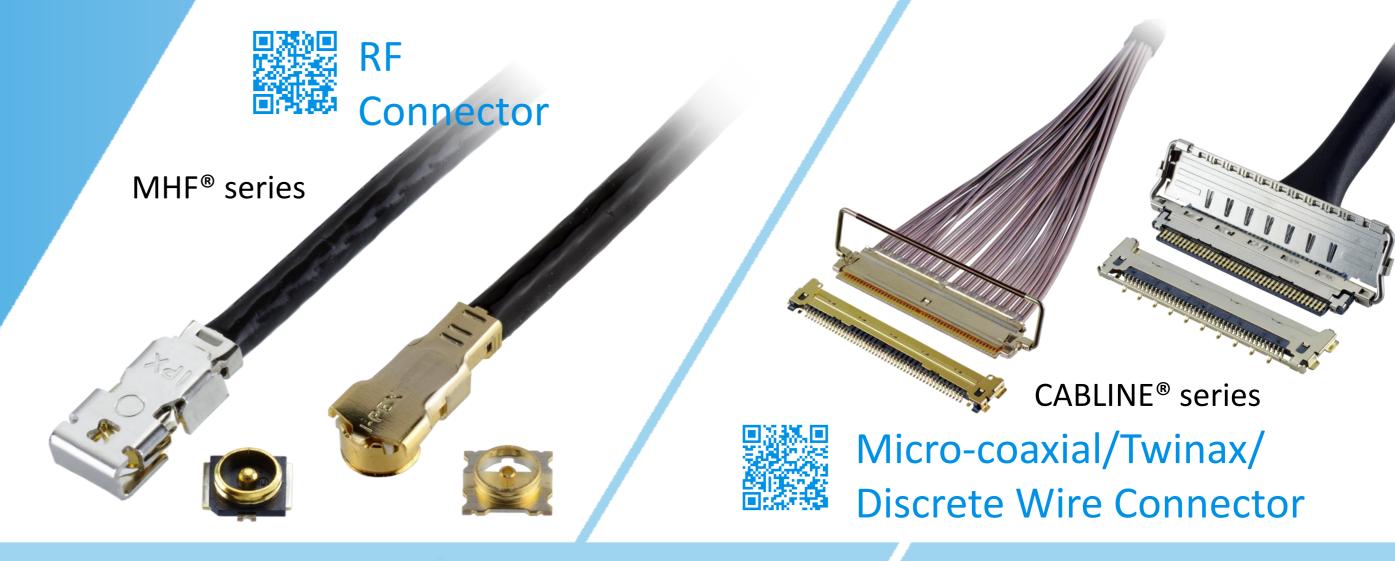
7. SOLDER RESIST MUST BE APPLIED TO THIS AREA.

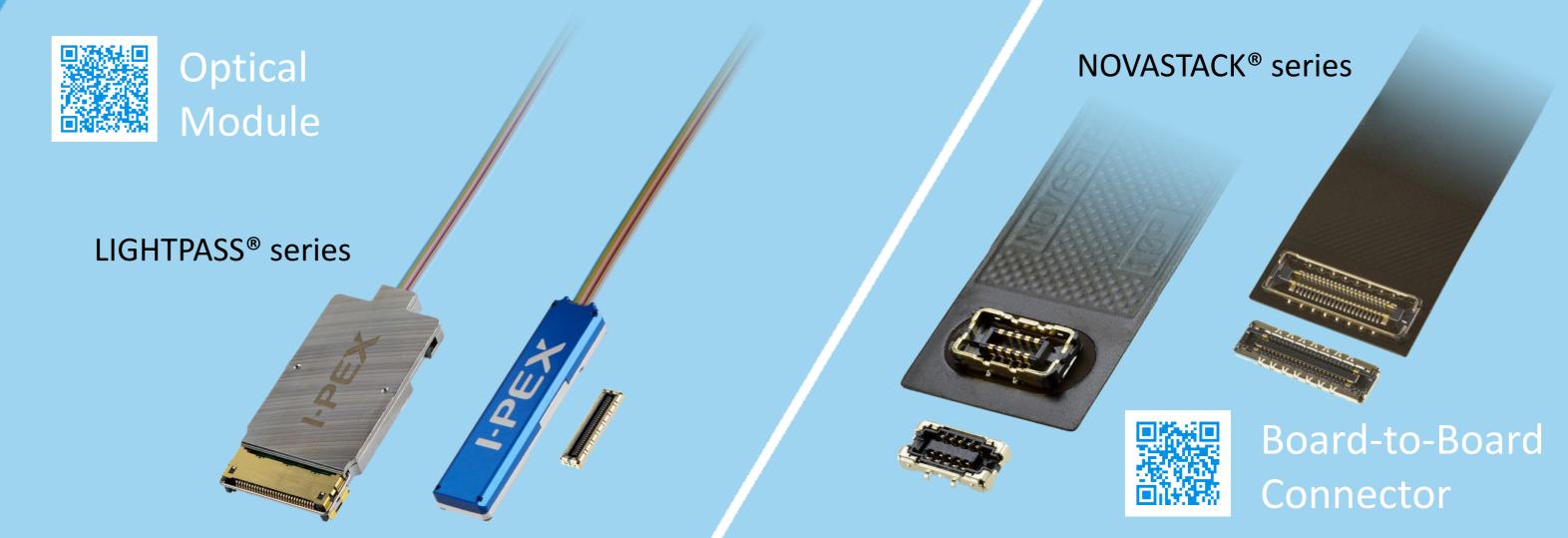
Rev.5

ITEMS	SPECIFICATION		
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)		
RATING AMPERAGE	0.35A AC/DC (PER CONTACT PIN) AVAILABLE FOR ALL CONTACTS 0.5A AC/DC (PER CONTACT PIN) AVAILABLE UP TO 15 CONTACTS		
OPERATING TEMPERATURE	233~398K(-40°C~+125°C)		
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)		
CONTACT RESISTANCE	INITIAL: 60mohm MAX. / AFTER TEST: ✓ 40mohm MAX.		
INSULATION RESISTANCE	500Mohm MIN.		
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min		
DURABILITY	50TH CYCLES		
FPC/FFC MATING FORCE (INITIAL / 50TH CYCLES)	20P: 15.00 N MAX. 30P: 22.00 N MAX. 40P: 29.00 N MAX. 50P: 36.00 N MAX. 60P: 43.00 N MAX.		
FPC/FFC UNMATING FORCE (INITIAL / 50TH CYCLES)	20P : 2.00 N MIN. 30P : 2.70 N MIN. 40P : 3.40 N MIN. 50P : 4.10 N MIN. 60P : 4.80 N MIN.		
FPC/FFC RETENTION FORCE (INITIAL / AFTER TEST)	20P: 11.00 N MIN. 30P: 11.70 N MIN. 40P: 12.40 N MIN. 50P: 13.10 N MIN. 60P: 13.80 N MIN.		
COPLANARITY	0.10 MAX.		
PRODUCT SPECIFICATION	PRS-2470		
TEST REPORT	TR-18020		
PACKING STANDARD	PST-19019		
INSTRUCTION MANUAL	HIM-18018		
APPEARANCE CRITERIA No.	QLS-A***		

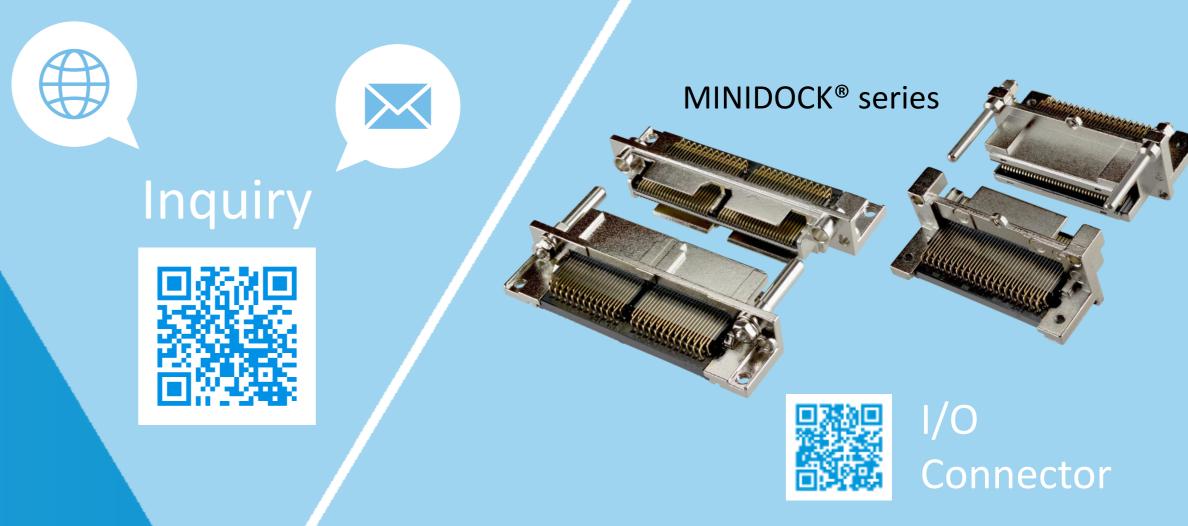


Custom Connectors Available









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Contact your sales representative or more detailed information.

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