EVAFLEX® 5-HD

Fully-shielded, high-speed, auto-locking, horizontal mate, 0.5 mm pitch shielded FFC/FPC connector

Product Specifications:					
Board Pitch (mm)		0.5			
Wiping Length (mm)		1			
Size (mm)	Height	2.00 +/- 0.20			
	Width	Formula: 5.2 + (0.5*?p)			
	Depth	8.43 +/- 0.30			
Pin counts	Range	10 - 40			
	Available	24			

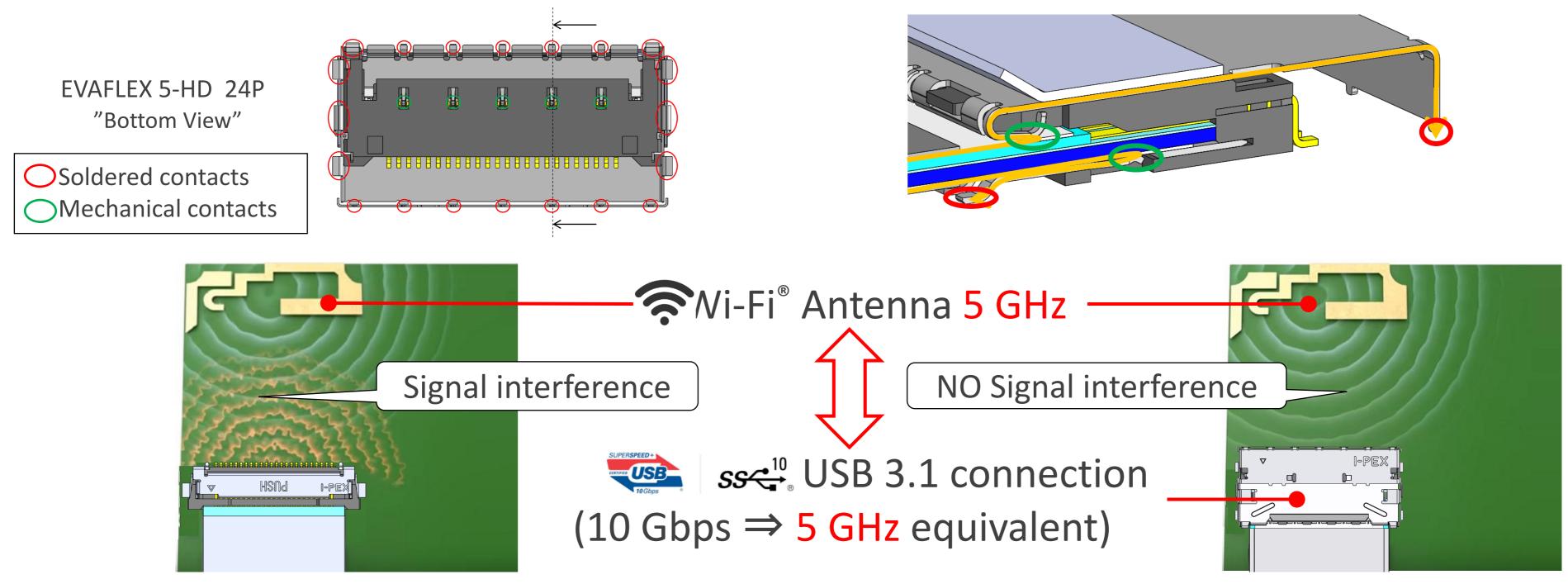
Applicable FPC/FFC:					
FPC/FFC Type	Shielded FFC & FPC				
FPC/FFC Contact Point	Тор				
FDC/FFC Thickness (mans)	0.3 +/- 0.03 Contact				
FPC/FFC Thickness (mm)	0.5 +/- 0.03 Ground				

Applicable Standards (Reference Only):

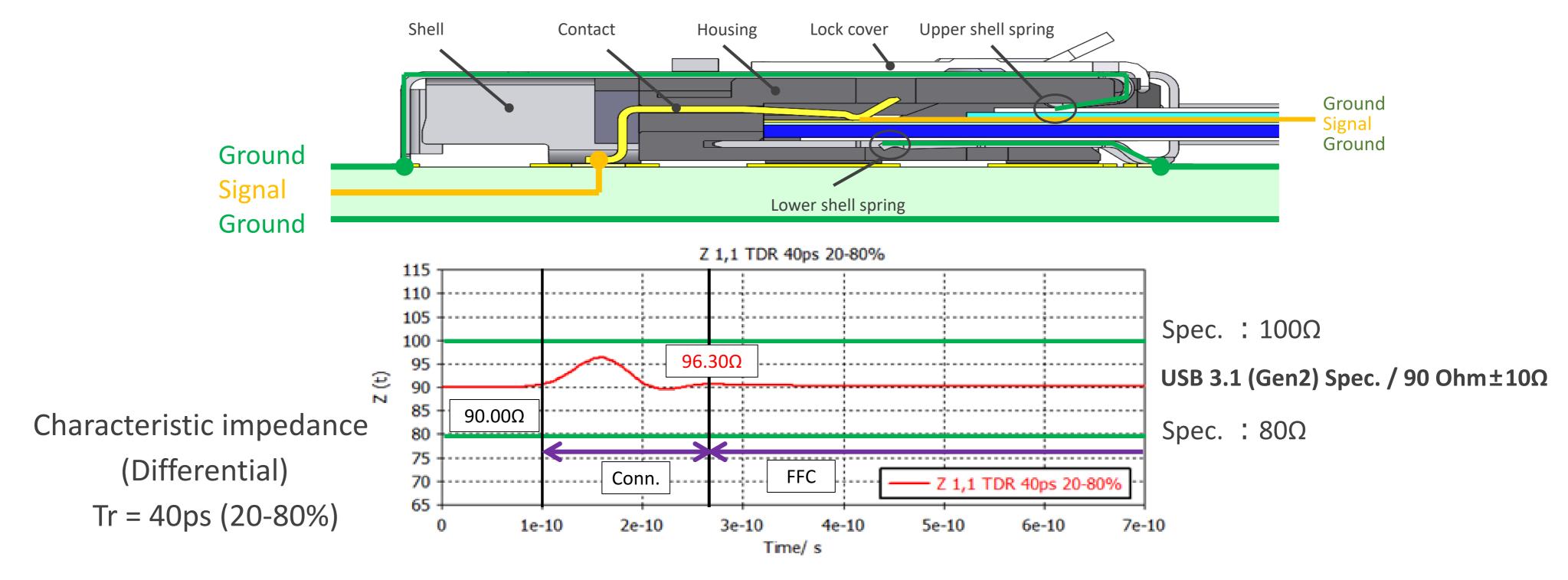
USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps) USB 3.1

Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)

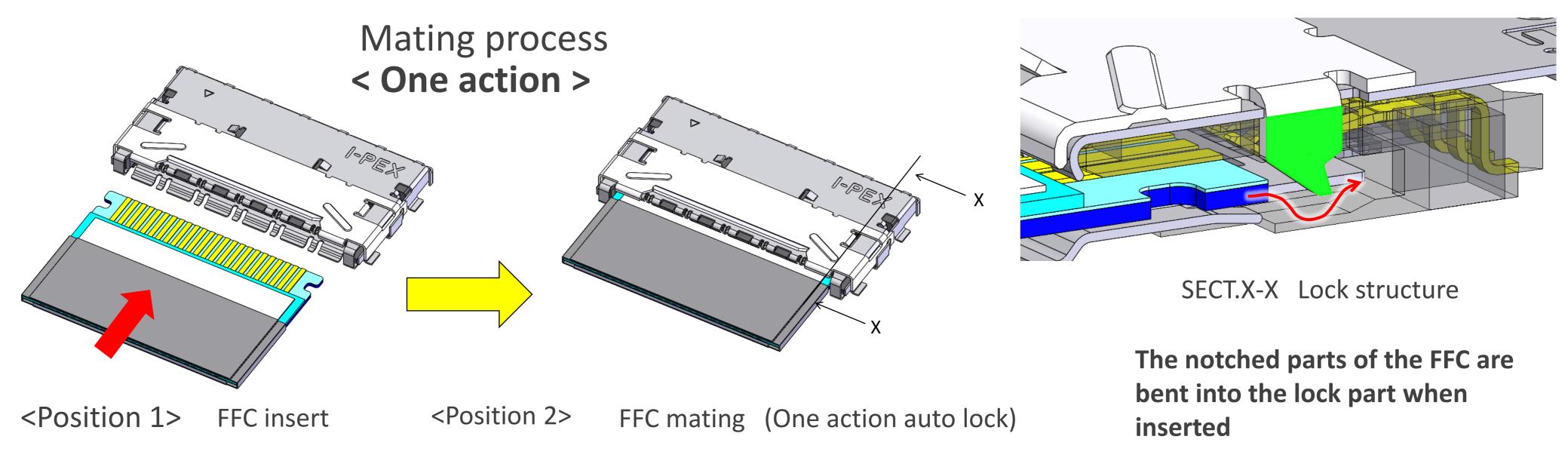
ZenShield® fully-shielded with multi-point grounds to prevent EMI leakage



Designed for high-speed transmission (10+ Gbps USB® 3.1 Gen 2)



Operator friendly auto-locking design, ideal for hand or robotic assembly

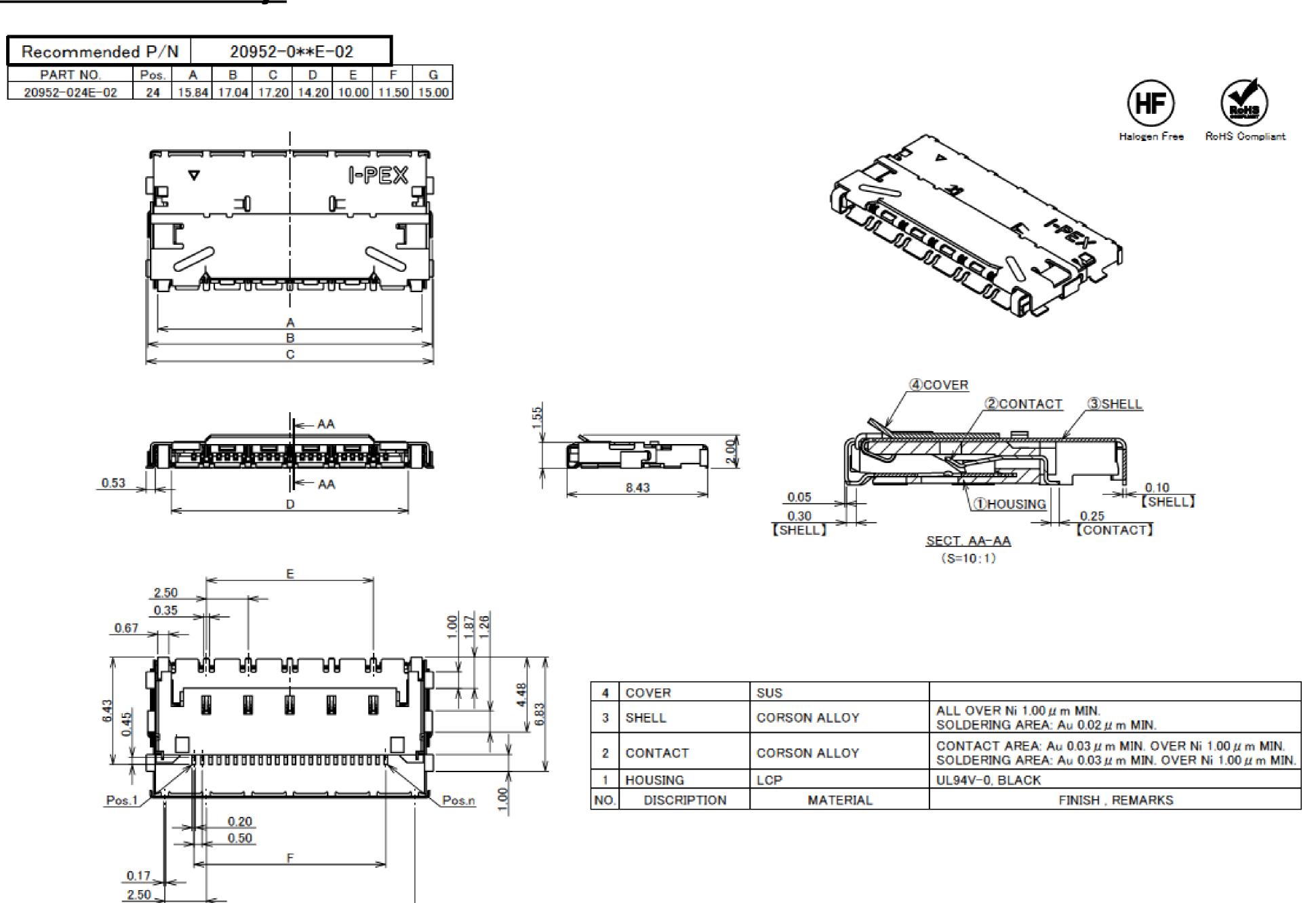




^{*} Please inquire for pin counts not listed or outside of the pin count range.

Component Parts Details

Connector Assembly

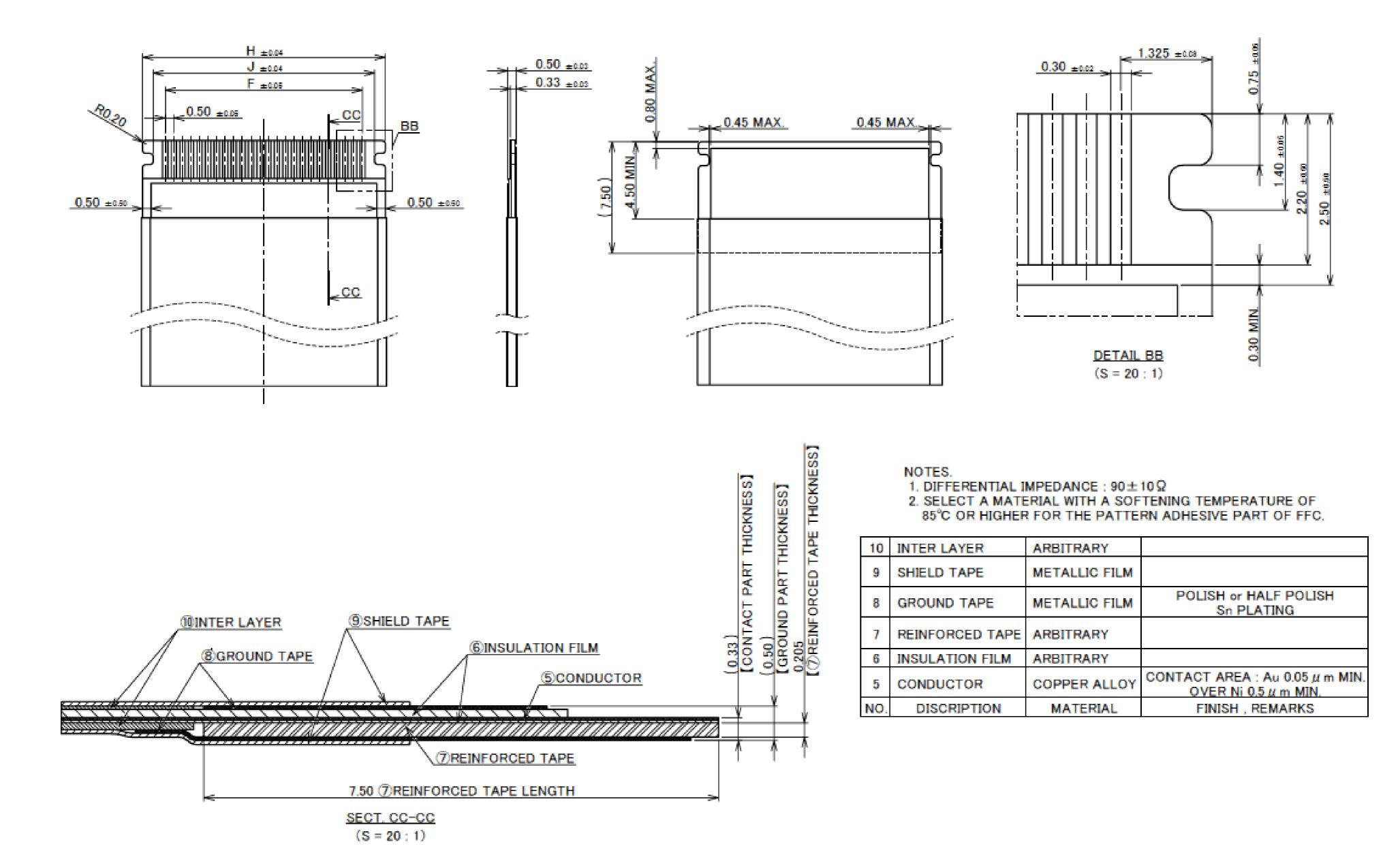




G

Connector Assembly

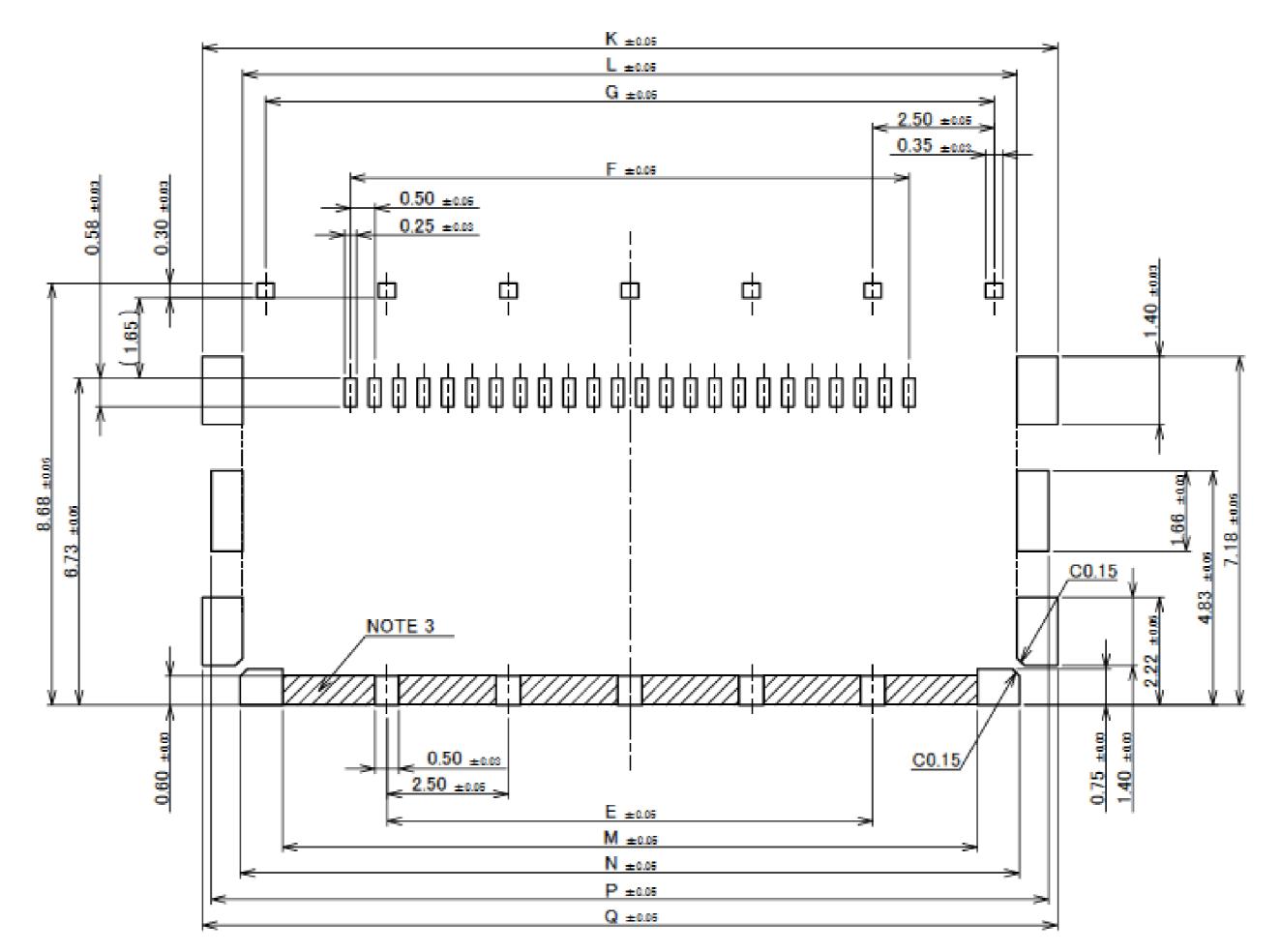
PART NO.	Pos.	F	Н	J	
20952-024E-02	24	11.50	14.15	12.90	



Rev.5

Plug Housing Assembly

PART NO.	Pos.	E	F	G	K	اـ	М	Ν	Р	Q
20952-024E-02	24	10.00	11.50	15.00	17.60	15.94	14.30	16.04	17.24	17.60



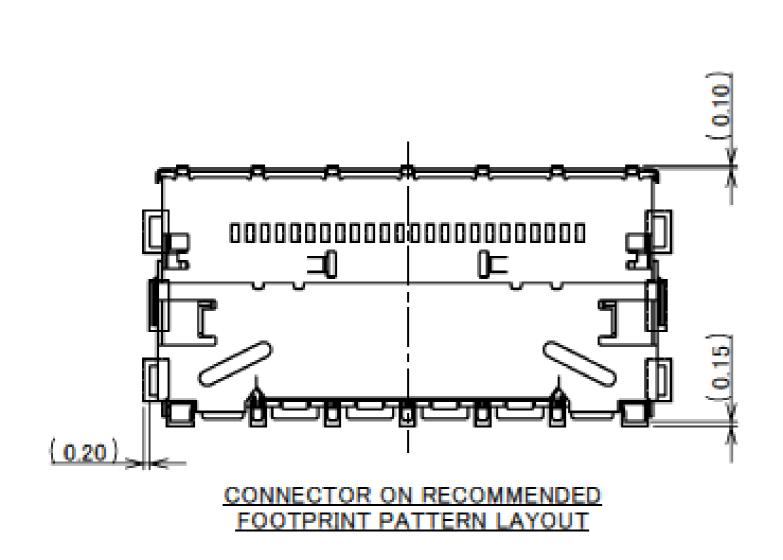
RECOMMENDED PCB & METALMASK LAYOUT

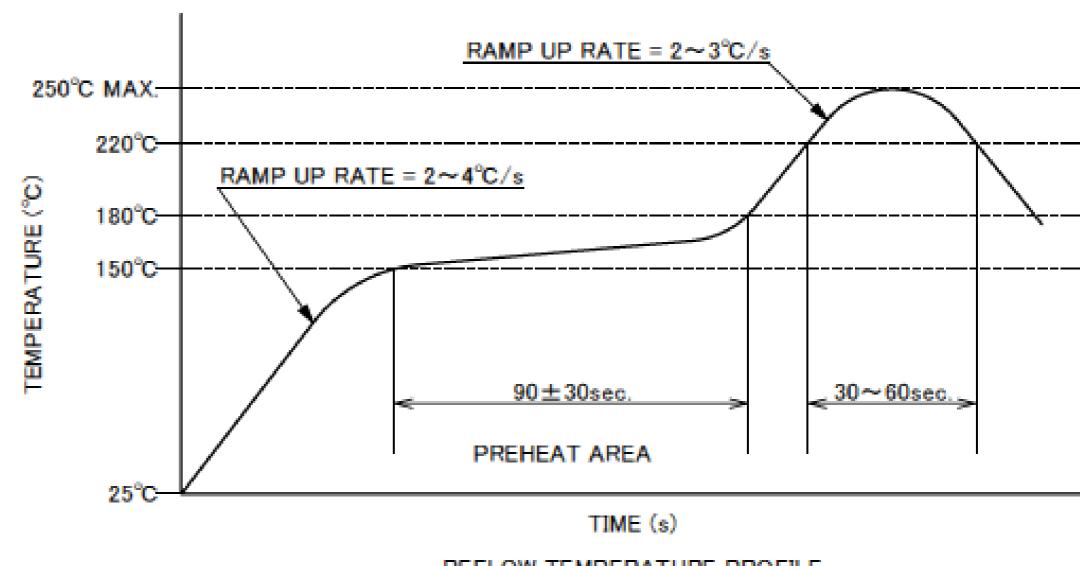
THICKNESS t=0.12

NOTES.
3. SOLDER RESIST MUST BE APPLIED TO THIS AREA.



Connector Assembly





REFLOW TEMPERATURE PROFILE
SENJU METAL INDUSTRY CO., LTD.: M705-SHF(Sn96.5 Ag3.0 Cu0.5)

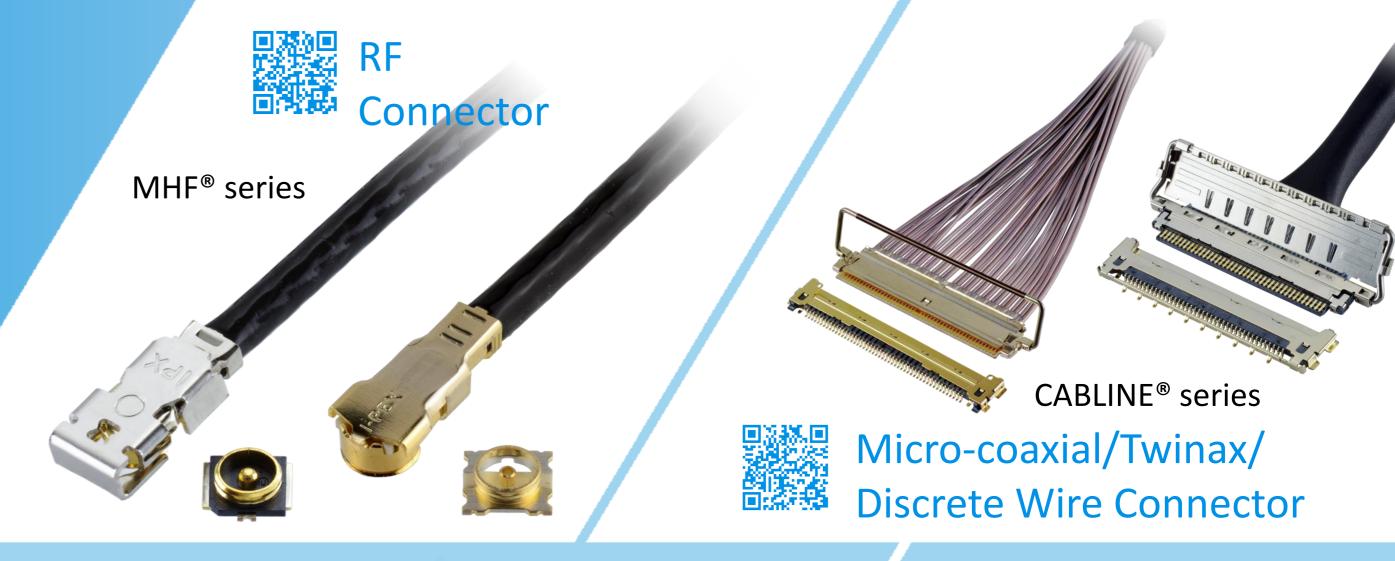
Rev.5

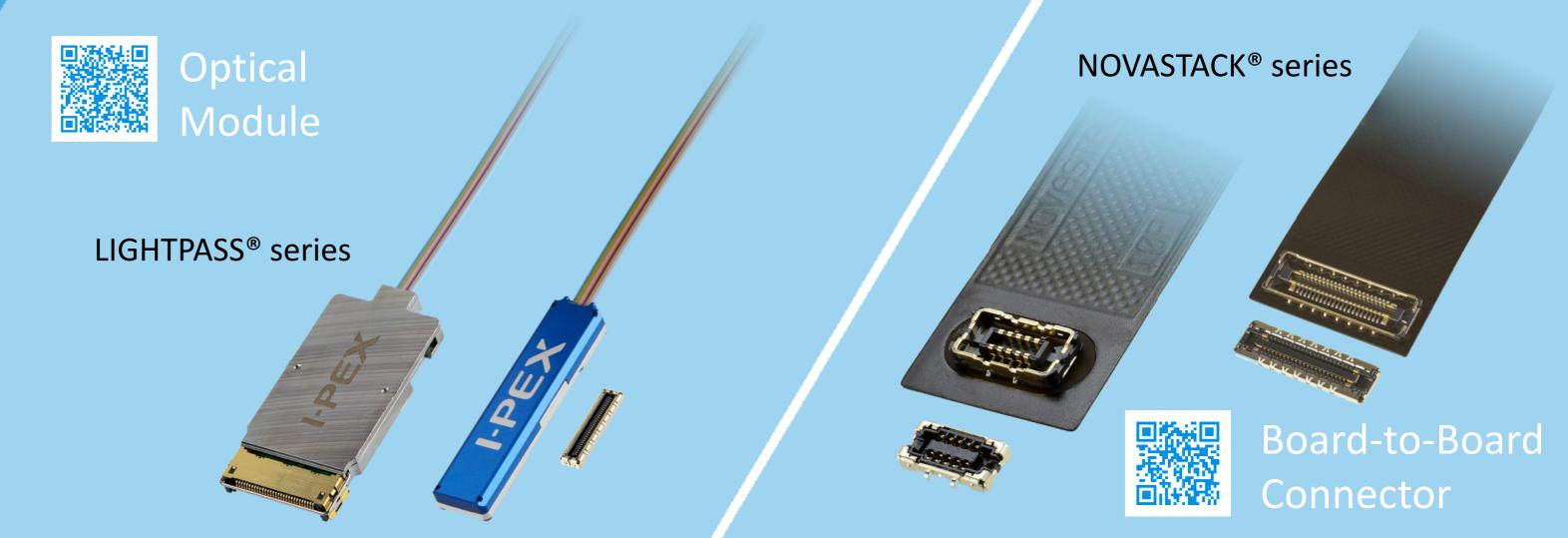
Plug Housing Assembly

ITEMS	SPECIFICATION					
RATING VOLTAGE	50V AC/DC (PER CONTACT PIN)					
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.30A AC/DC (PER CONTACT PIN)					
OPERATING TEMPERATURE	233~358K (-40°C~+85°C)					
OPERATING HUMIDITY	85% RH. MAX. (NON-CONDENSING)					
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL: 60mohm MAX. / AFTER TEST: 40mohm MAX.					
INSULATION RESISTANCE	INITIAL: 500Mohm MIN. / AFTER TEST: 500Mohm MIN.					
DIELECTRIC WITHSTANDING VOLTAGE	AC 250V 1min					
DURABILITY	30 CYCLES					
MATING FORCE (INITIAL / AFTER TEST)	24P : 22.00 N MAX.					
UNMATING FORCE (INITIAL / AFTER TEST)	24P : 2.30 N MIN.					
FFC/FPC RETENTION FORCE (INITIAL / AFTER TEST)	24P : 8.50 N MIN.					
COPLANARITY	0.10 MAX.					
PRODUCT SPECIFICATION	PRS-2645					
TEST REPORT	TR-20006					
PACKING STANDARD	PST-19012					
INSTRUCTION MANUAL	HIM-19004					
APPEARANCE CRITERIA No.	QLS-A***					

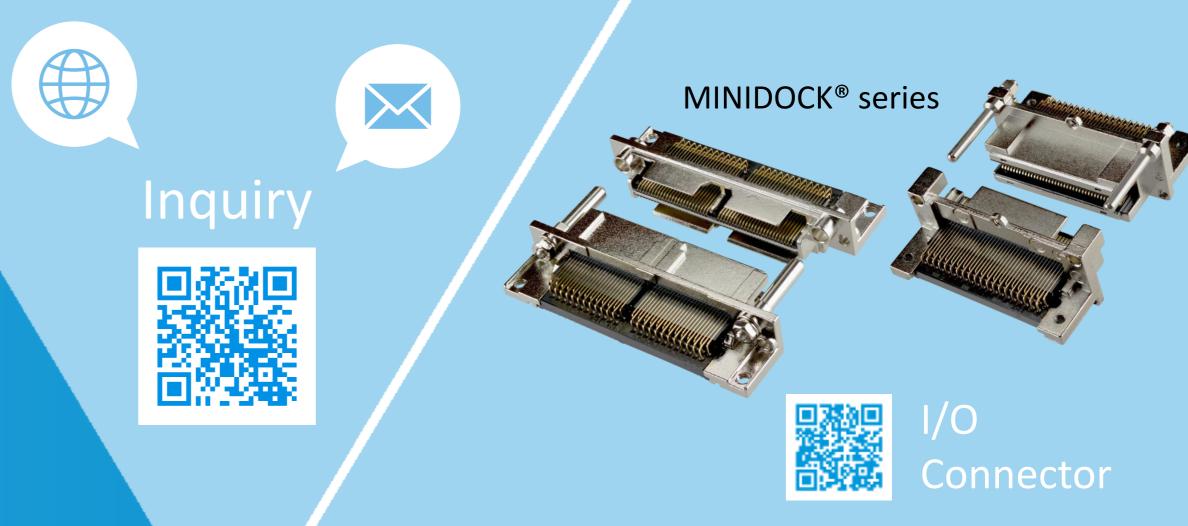


Custom Connectors Available









I-PEX, MHF, CABLINE, LIGHTPASS, NOVASTACK, ISH, IARPB, MINIFLEX, EVAFLEX, MINIDOCKS and ZenShield are registered trademarks of I-PEX Inc. Please note that the contents in the catalog might be changed without prior notification. I-PEX Inc. assumes no responsibility for any inaccuracies or obligation to update Information on these documents, Please be sure to read and understand the latest "Precautions for Use" and "Instruction" Manual" before you use our products. We shall not be responsible for any defects, damages or troubles in case you use our products without following the precautions for use. Please feel free to contact our sales representatives when you use our products for any applications that require very high reliability and safety, or that relate to human life (ex. nuclear power control, aerospace, transportation, medical equipment, safety equipment etc.).

Contact your sales representative or more detailed information.

www.i-pex.com

