

# EVAFLEX® 5-HD

全屏蔽，高速数据传输，自动锁扣，水平插拔，0.5 mm间距的带屏蔽的 FFC/FPC连接器



**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:**

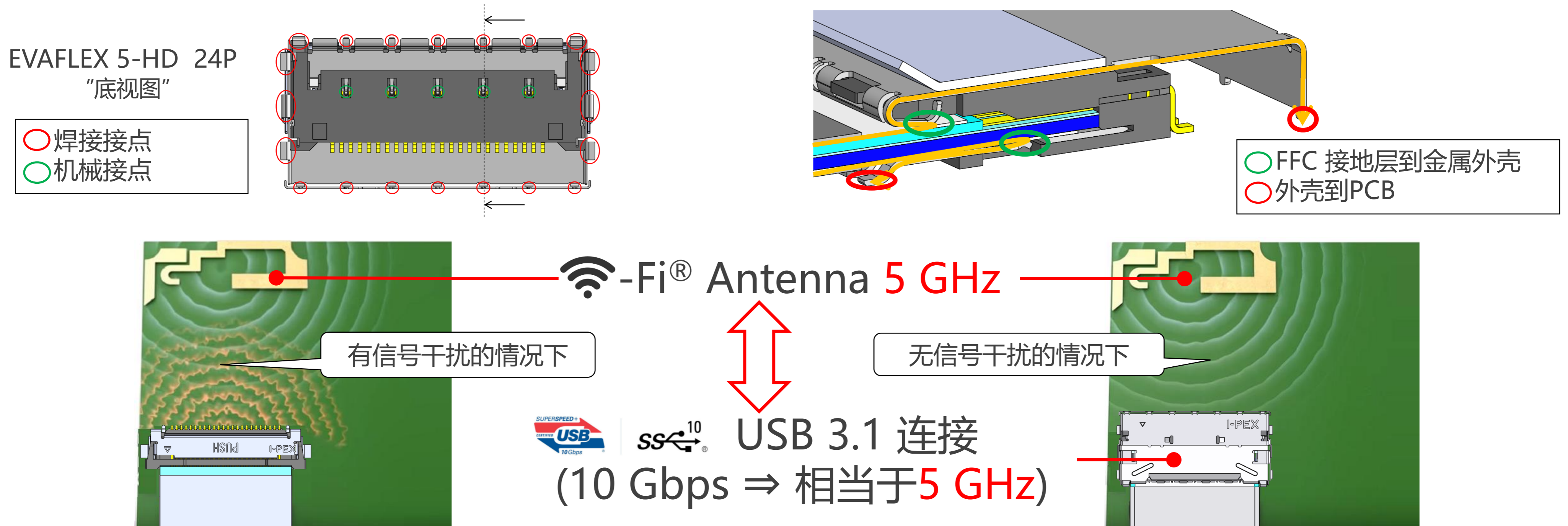
FPC/FFC Type	Shielded FFC & FPC
FPC/FFC Contact Point	Top
FPC/FFC Thickness (mm)	0.3 +/- 0.03 Contact 0.5 +/- 0.03 Ground

**Applicable Standards (Reference Only):**

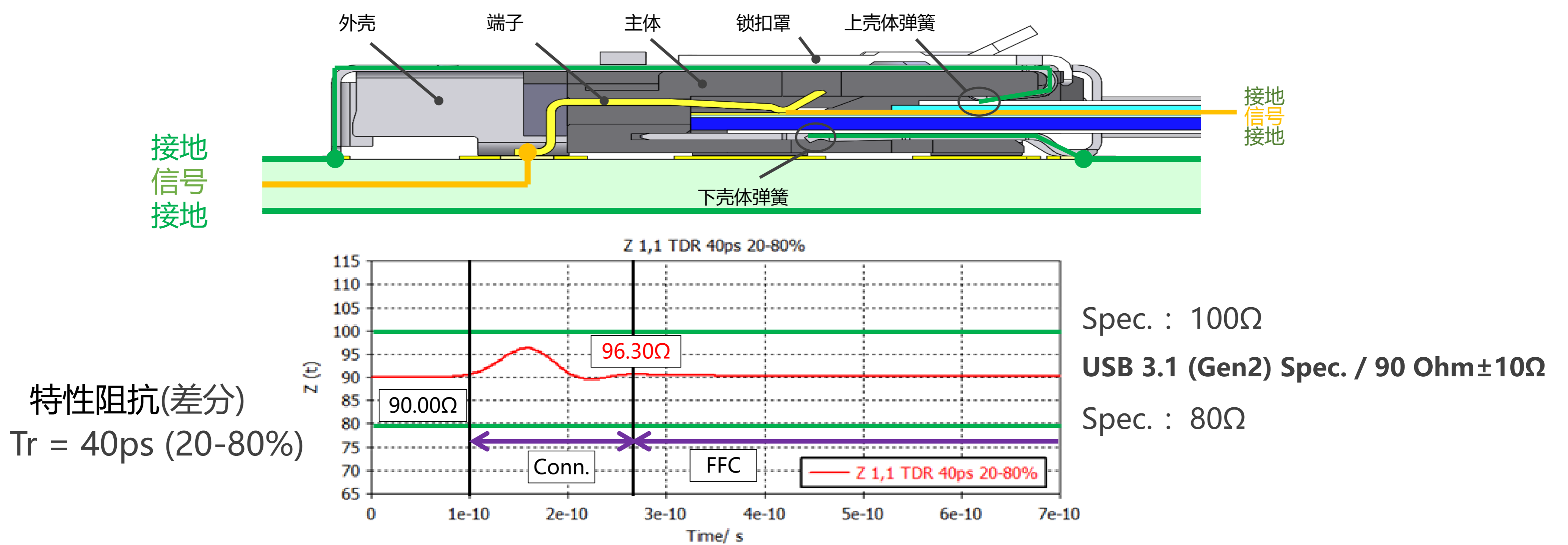
USB4 (20 Gbps/lane) USB 3.1 Gen 2 (10 Gbps) USB 3.1 Gen 1 (5 Gbps) V-By-One HS 1.4 (4 Gbps)

\*如您需要了解未列出或不在范围内的Pin数，请咨询我们。

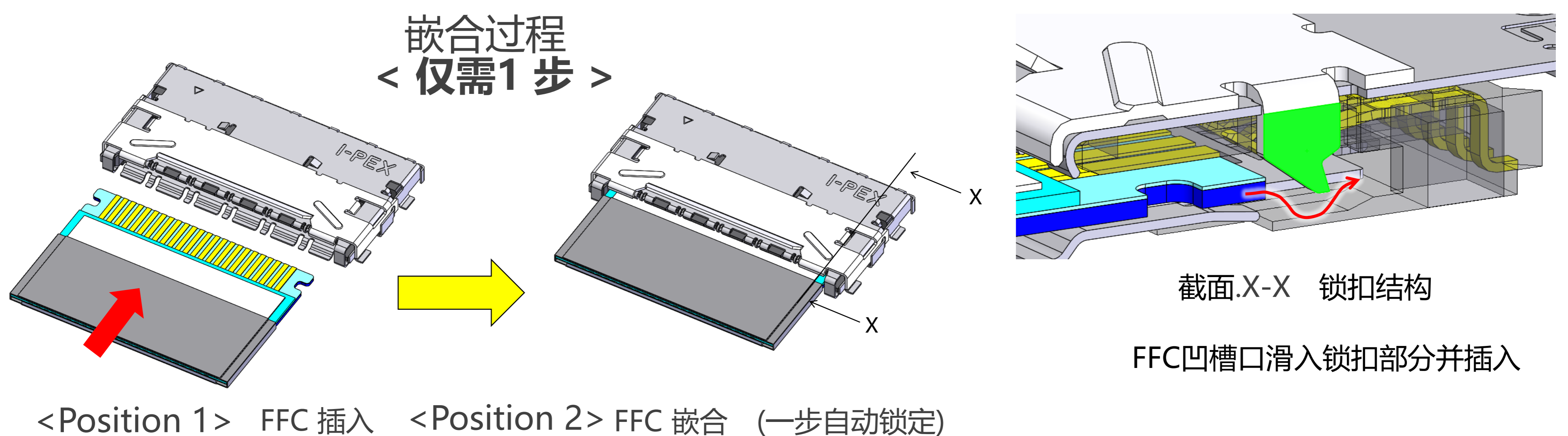
## ZenShield® 的全屏蔽和多点接地设计，有效防止EMI外泄



## 高速数据传输设计 (10+ Gbps USB® 3.1 Gen 2)



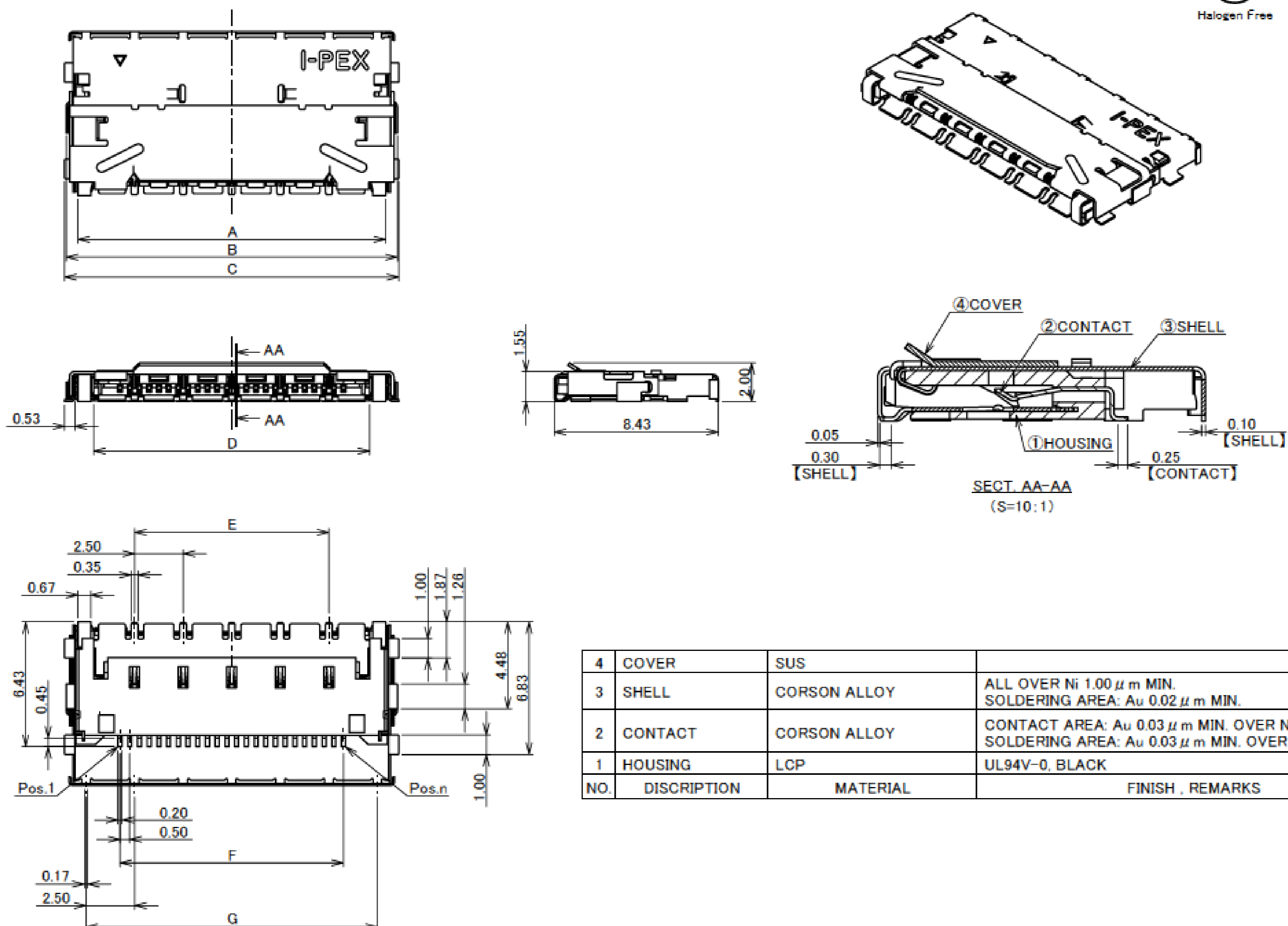
## 自动锁扣的设计便于操作,适用于手动或机器人装配



# Component Parts Details

## Connector Assembly

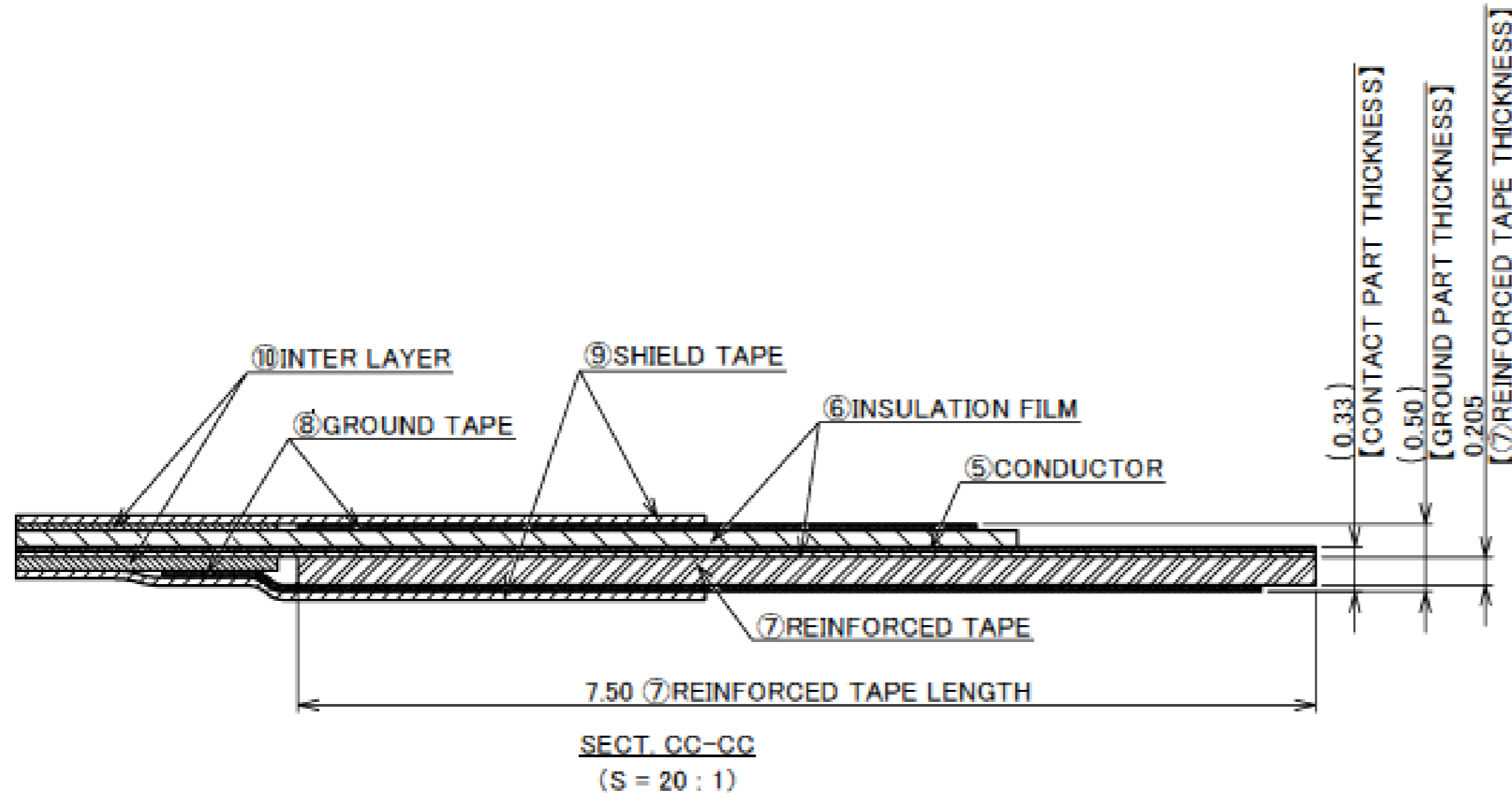
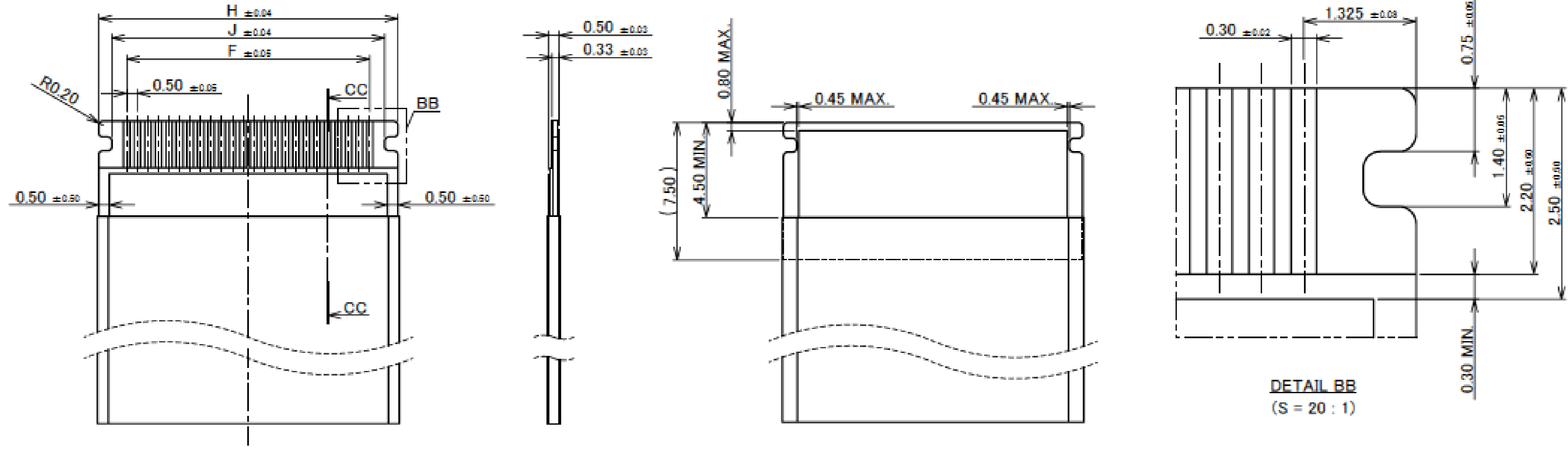
Recommended P/N		20952-0**E-02						
PART NO.	Pos.	A	B	C	D	E	F	G
20952-024E-02	24	15.84	17.04	17.20	14.20	10.00	11.50	15.00



NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	COVER	SUS	
3	SHELL	CORSON ALLOY	ALL OVER Ni 1.00 $\mu$ m MIN. SOLDERING AREA: Au 0.02 $\mu$ m MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.03 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN. SOLDERING AREA: Au 0.03 $\mu$ m MIN. OVER Ni 1.00 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

# Connector Assembly

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



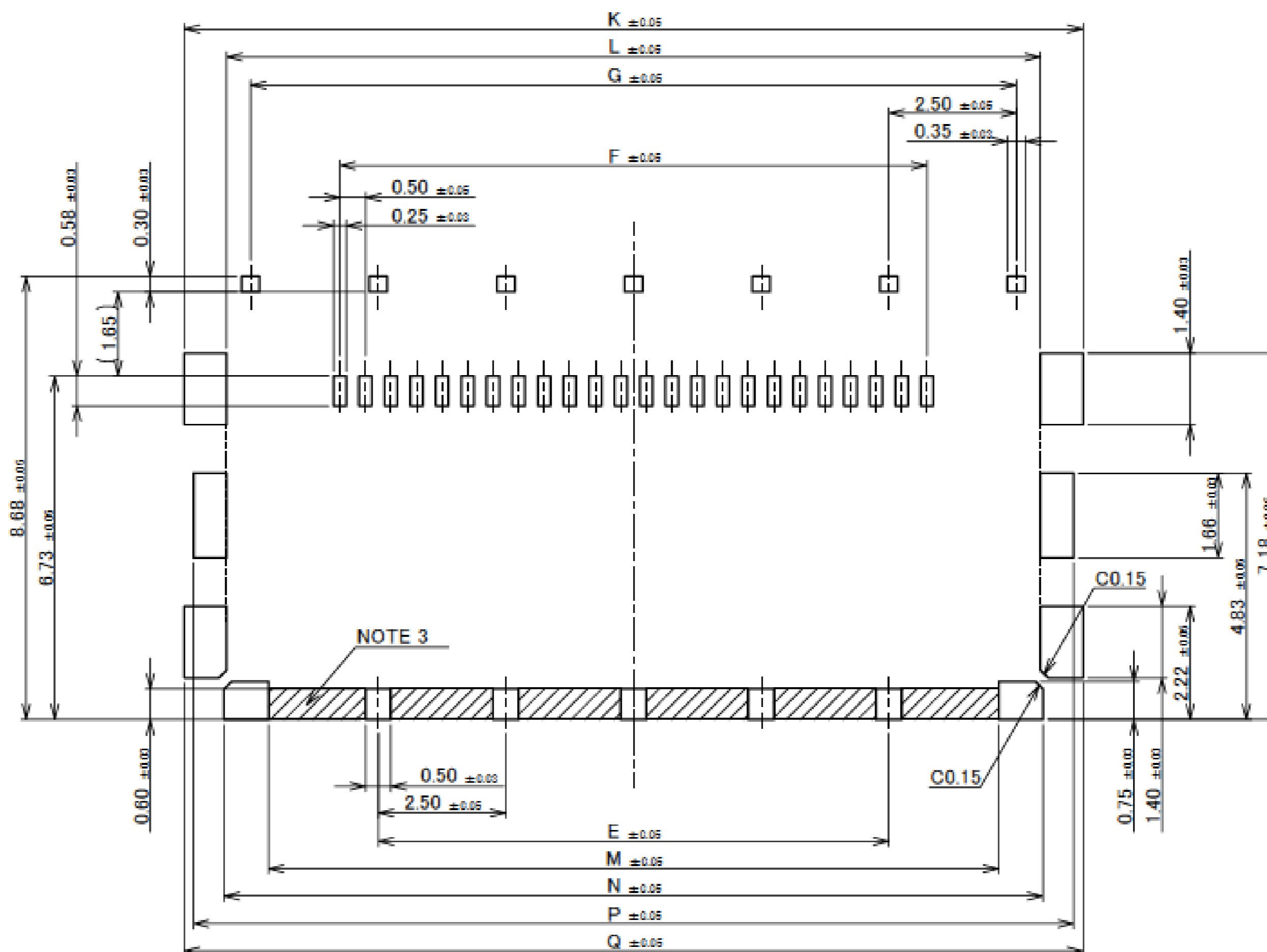
- NOTES.
- DIFFERENTIAL IMPEDANCE :  $90 \pm 10 \Omega$
  - SELECT A MATERIAL WITH A SOFTENING TEMPERATURE OF  $85^\circ\text{C}$  OR HIGHER FOR THE PATTERN ADHESIVE PART OF FFC.

NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
10	INTER LAYER	ARBITRARY	
9	SHIELD TAPE	METALLIC FILM	
8	GROUND TAPE	METALLIC FILM	POLISH or HALF POLISH Sn PLATING
7	REINFORCED TAPE	ARBITRARY	
6	INSULATION FILM	ARBITRARY	
5	CONDUCTOR	COPPER ALLOY	CONTACT AREA : Au $0.05 \mu\text{m}$ MIN. OVER Ni $0.5 \mu\text{m}$ MIN.

Rev.5

# Plug Housing Assembly

PART NO.	Pos.	E	F	G	K	L	M	N	P	Q
20952-024E-02	24	10.00	11.50	15.00	17.60	15.94	14.30	16.04	17.24	17.60

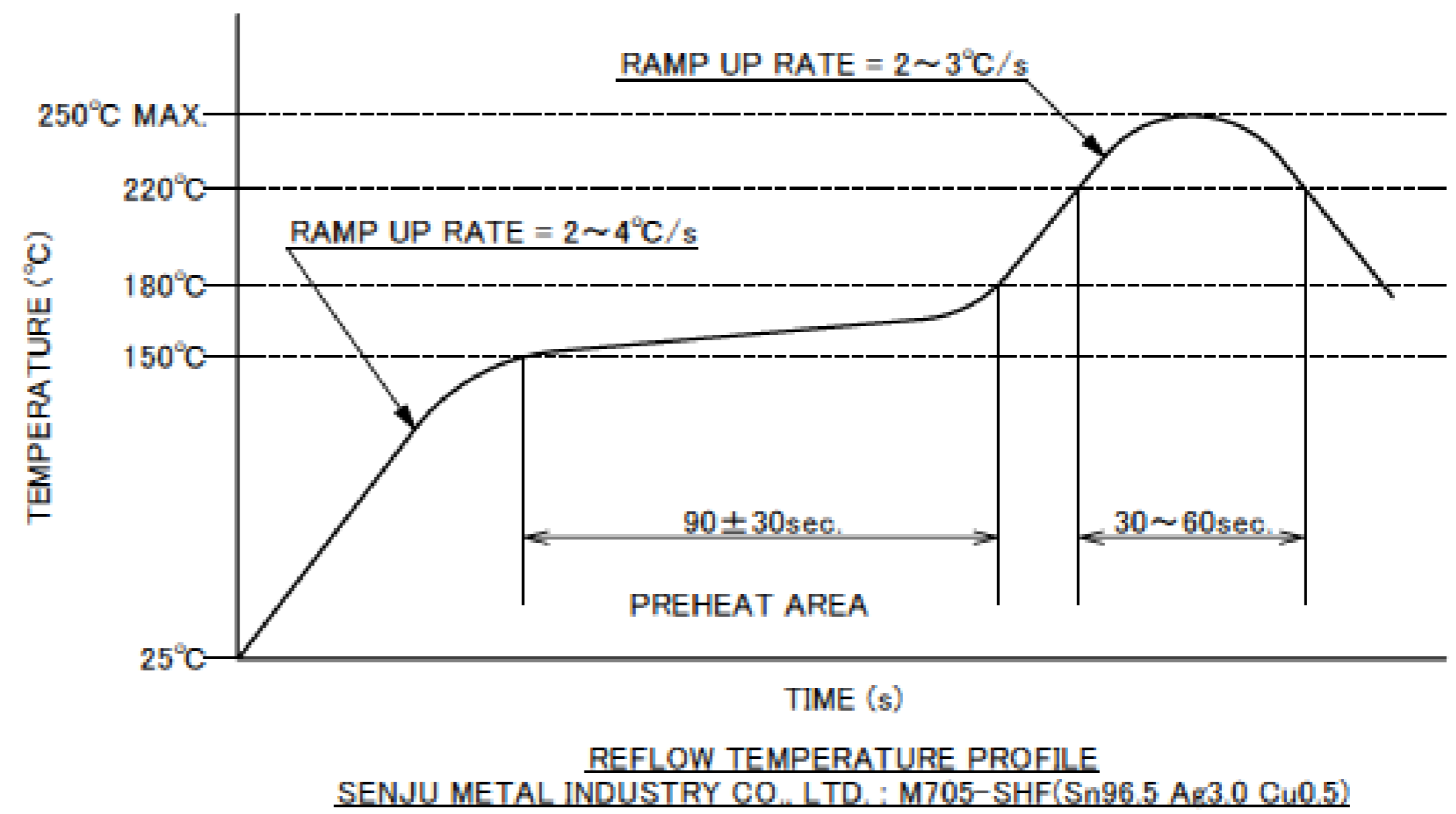
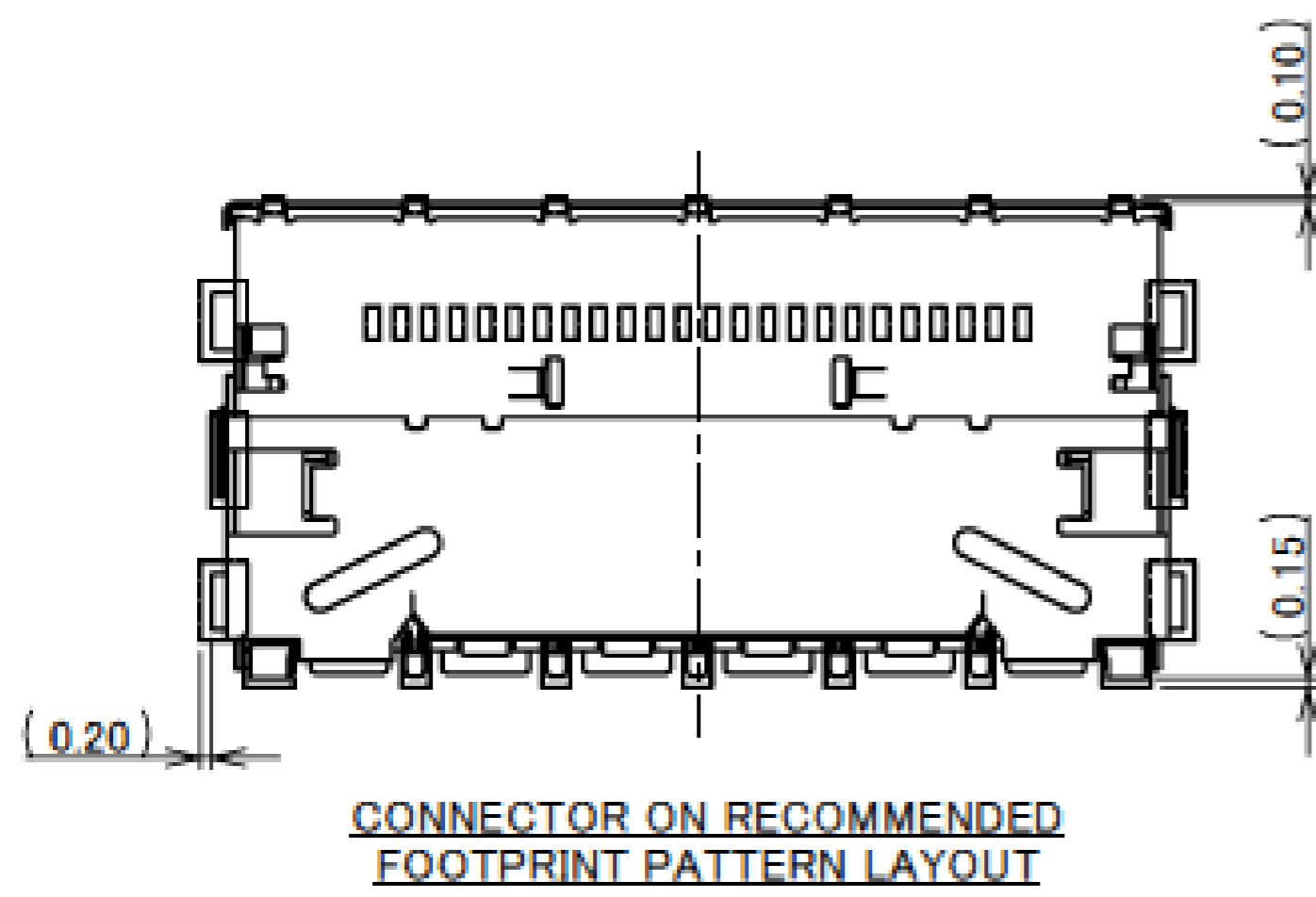


RECOMMENDED PCB & METALMASK LAYOUT  
THICKNESS  $t=0.12$

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

Rev.5

## Connector Assembly



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 : <math>\angle 140\text{mohm}</math> 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***


Rev.5

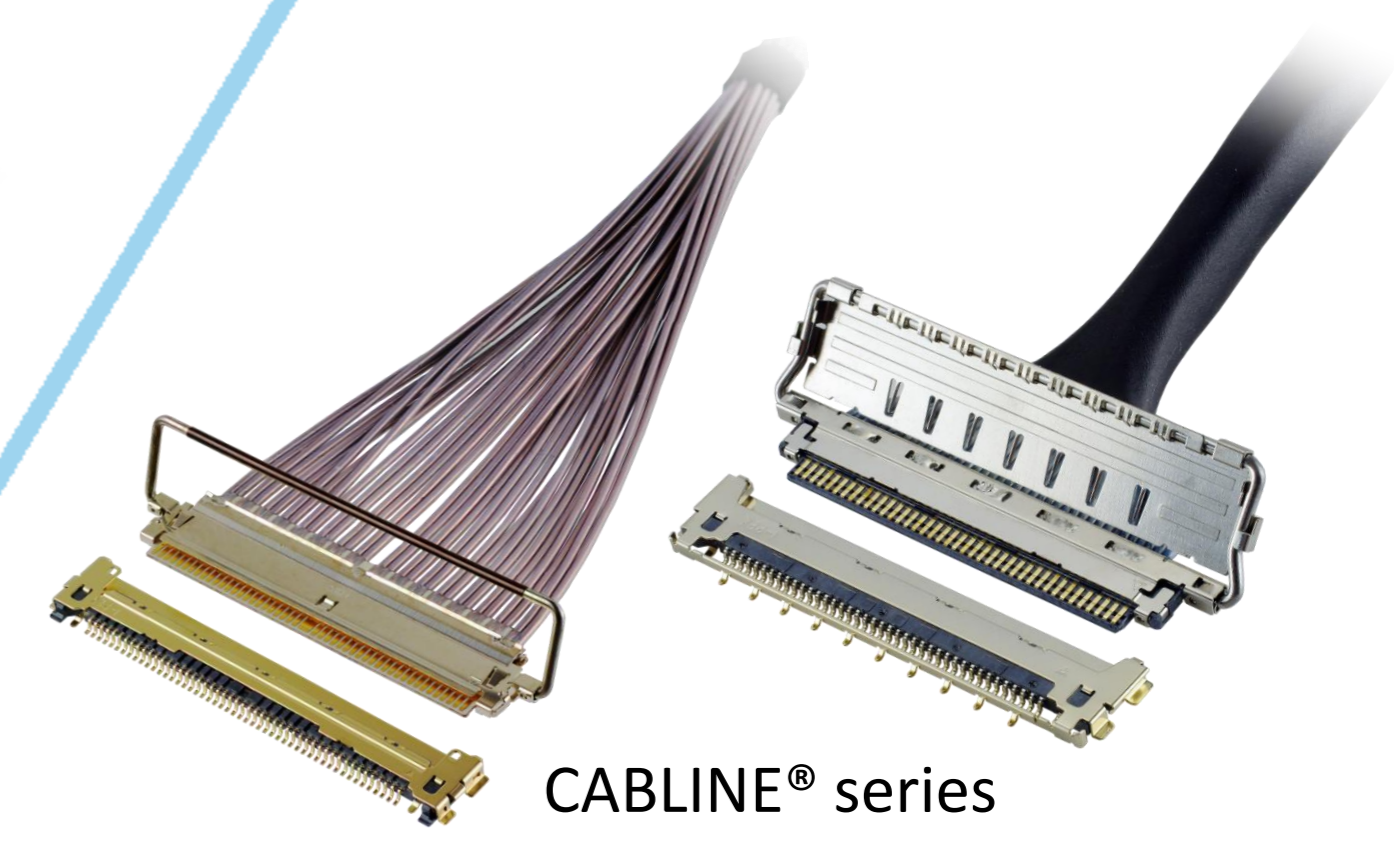
# Custom Connectors Available

 RF Connector

MHF® series



 CABLINE® series  
Micro-coaxial/Twinax/  
Discrete Wire Connector



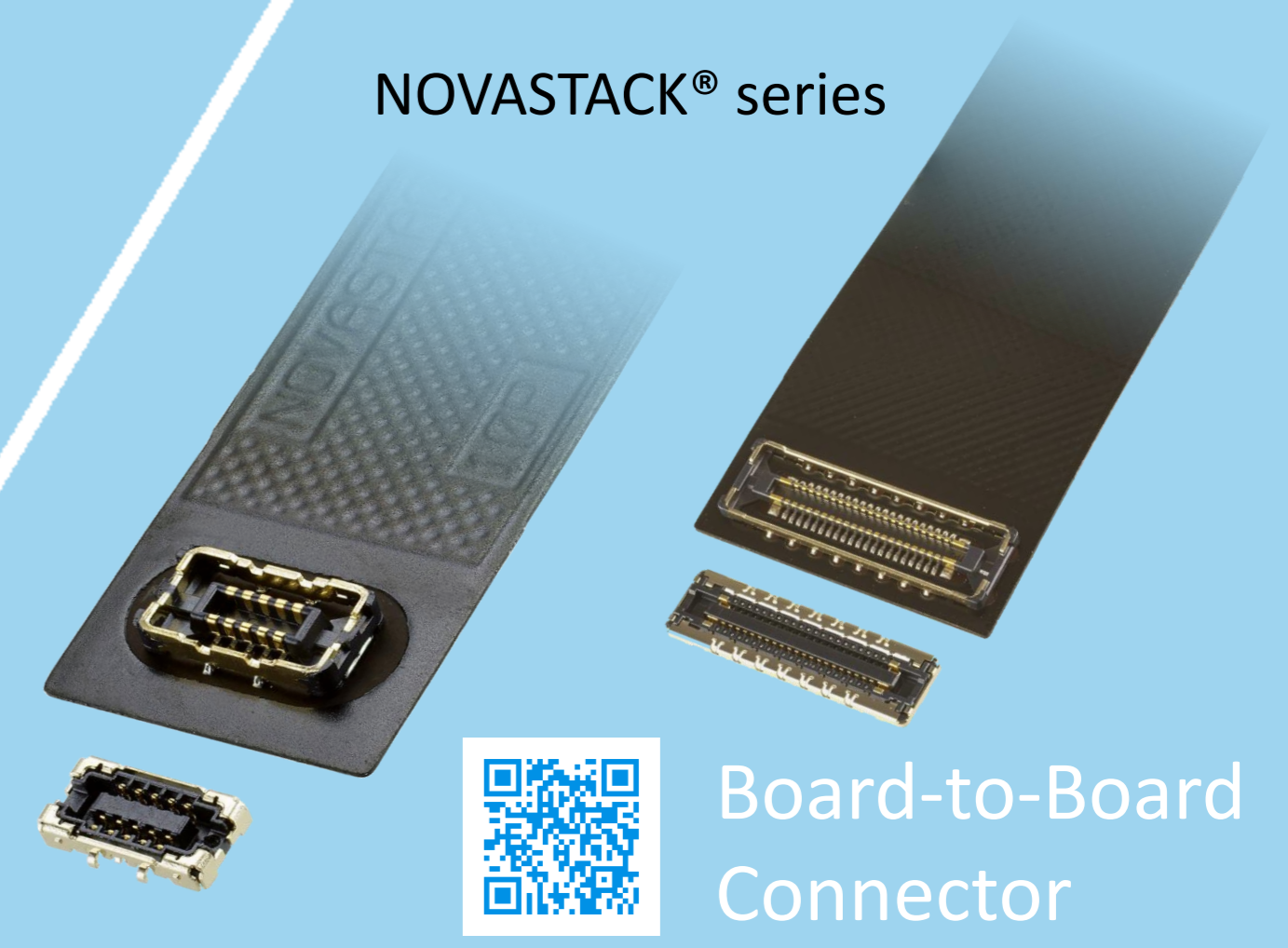
 Optical Module

LIGHTPASS® series



NOVASTACK® series

 Board-to-Board Connector



 Power Connector/  
Terminal

AP series

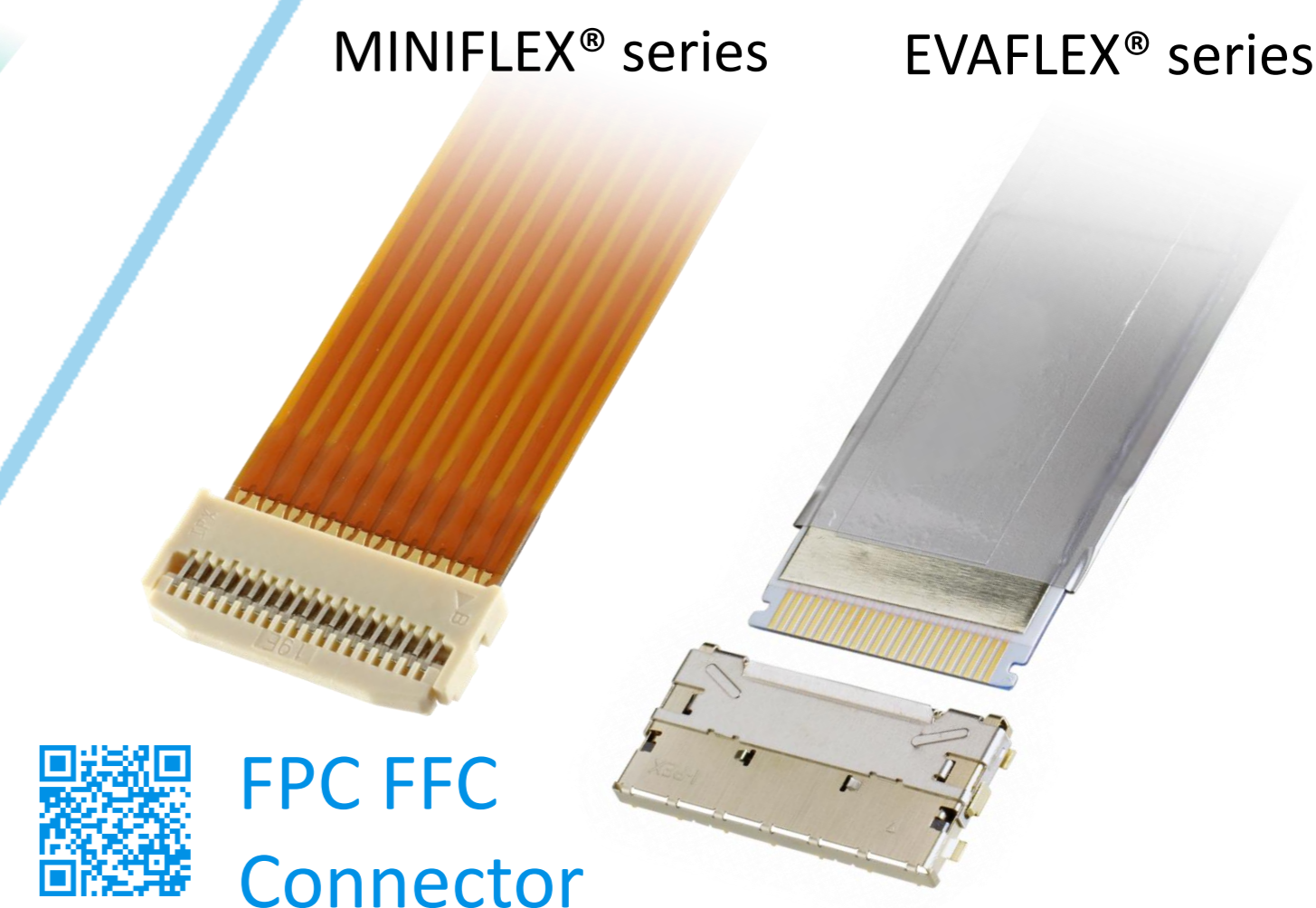
ISH® series



MINIFLEX® series

EVAFLEX® series

 FPC FFC Connector

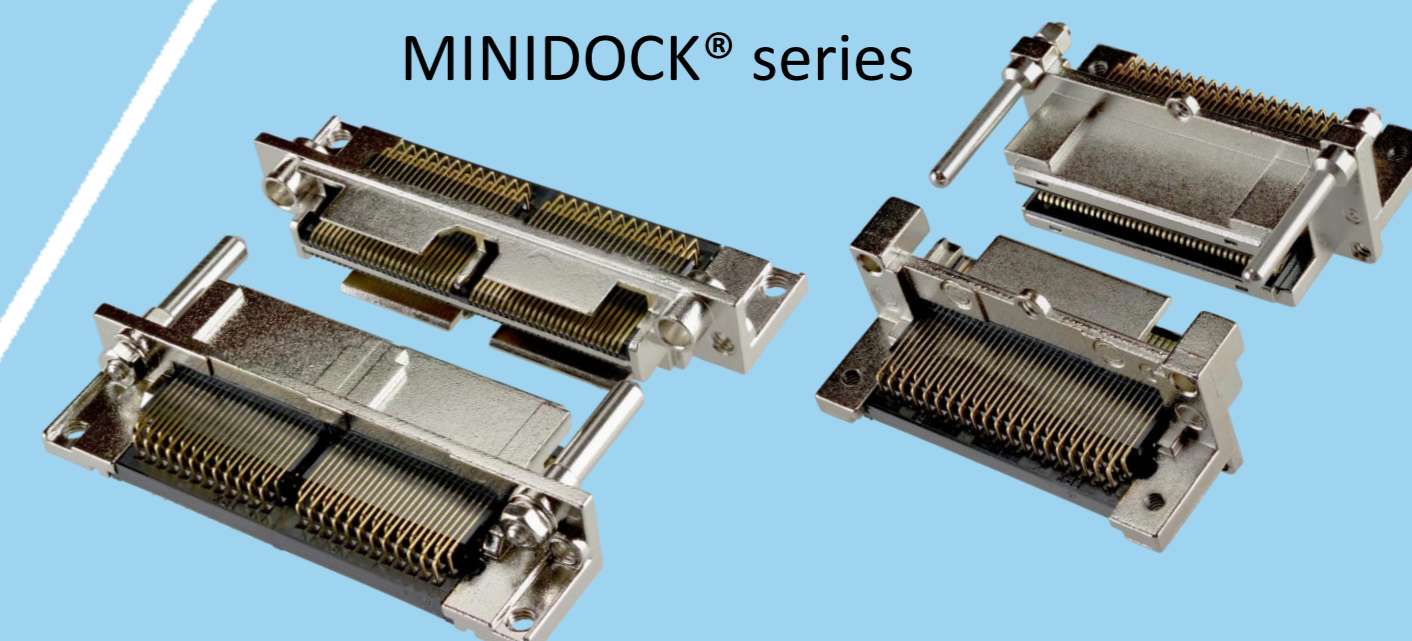


Inquiry



MINIDOCK® series

 I/O Connector



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