

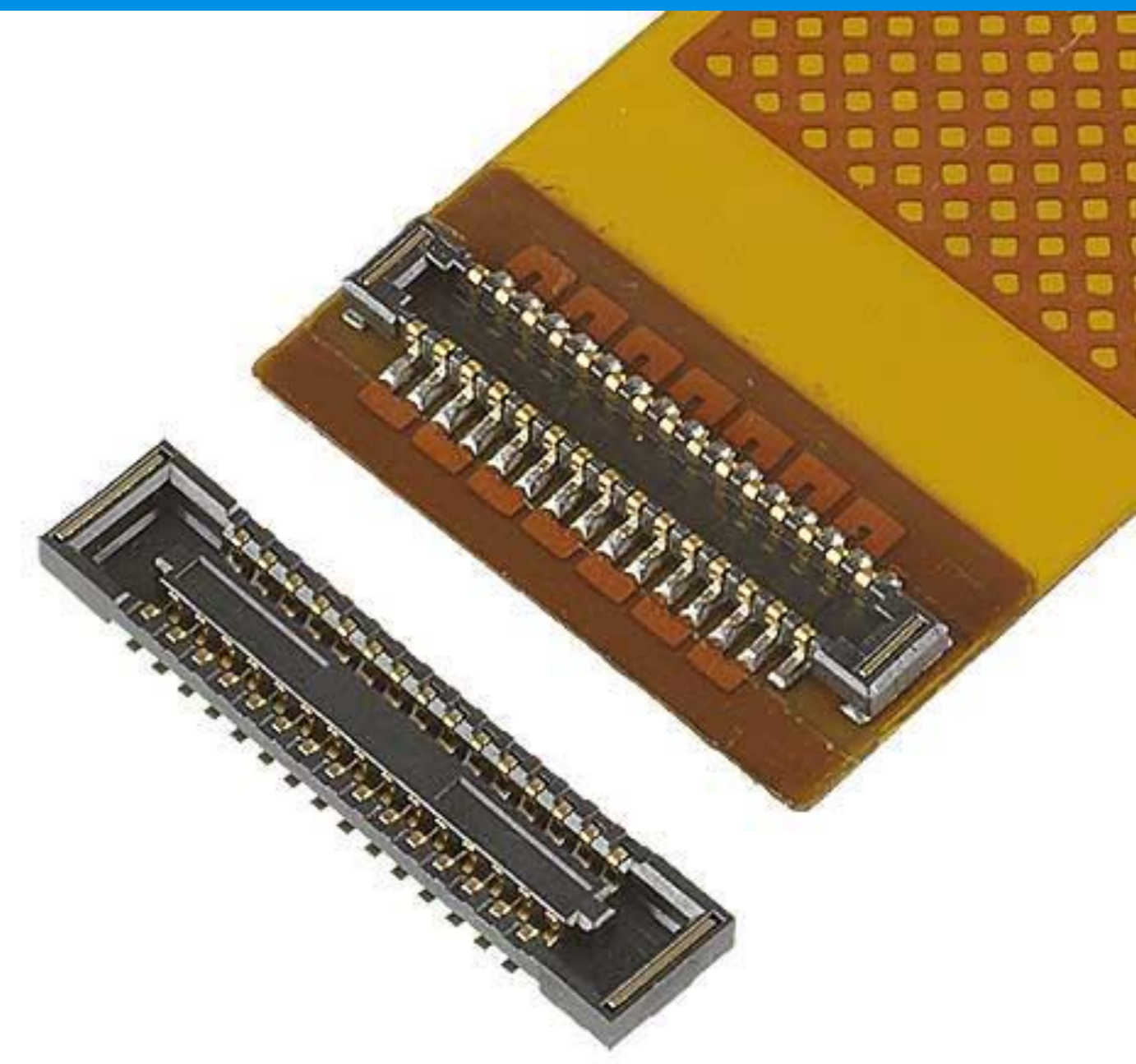
NOVASTACK® 4

窄款低背設計, 0.4 mm 間距, 高度 0.6 mm, 深度 1.88 mm

Product Specifications:

Board Pitch (mm)	0.4	
Wiping Length (mm)	0.19 (10~50 P), 0.13 (52~80 P)	
Mated Size (mm)	Height	0.6 +/- 0.1
	Width	Formula: $2.50 + (0.4 * ?p/2)$
	Depth	1.88
Current Rating	Signal	0.3 A/pin
	Power	-
Pin Counts	Range	6 - 80
	Available	6, 10, 24, 30, 34, 40

*若有規格外 Pin 數需求, 請與當地負責業務窗口聯繫。

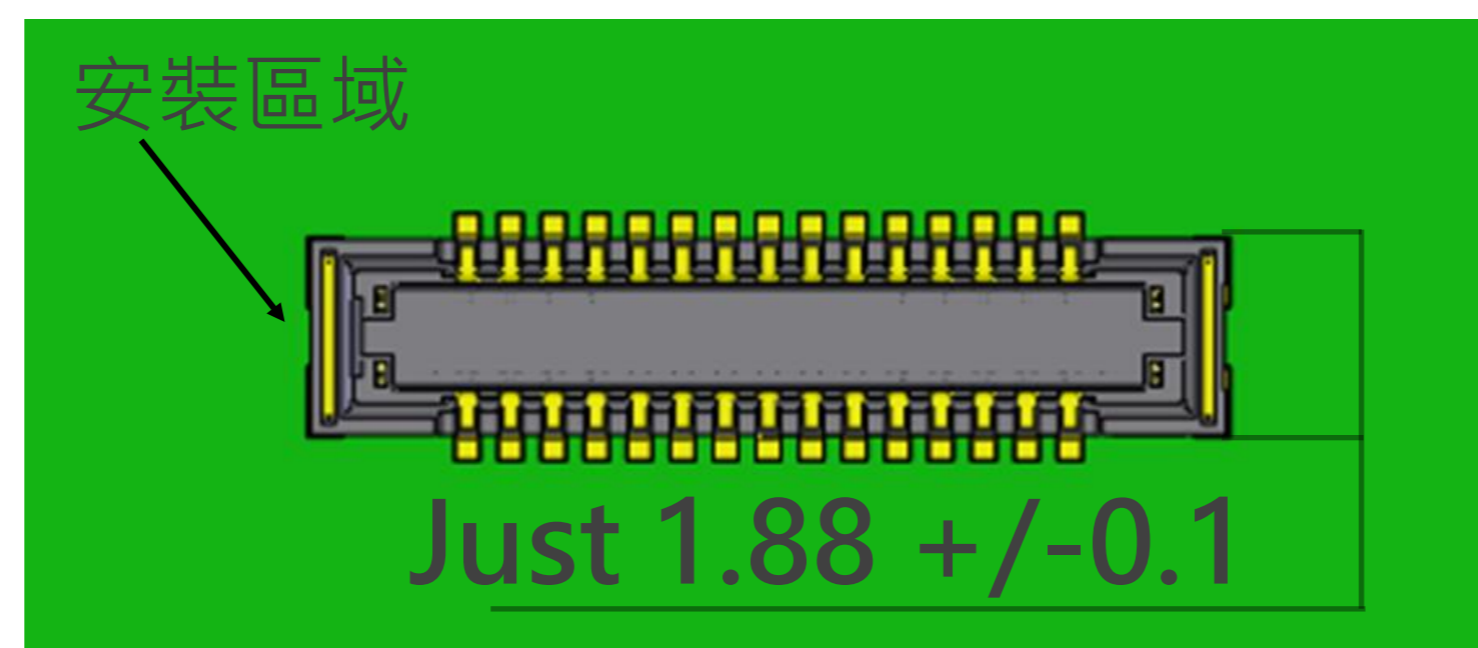


▶ 超窄款式, 深度 1.88 mm

RED: 正在研制

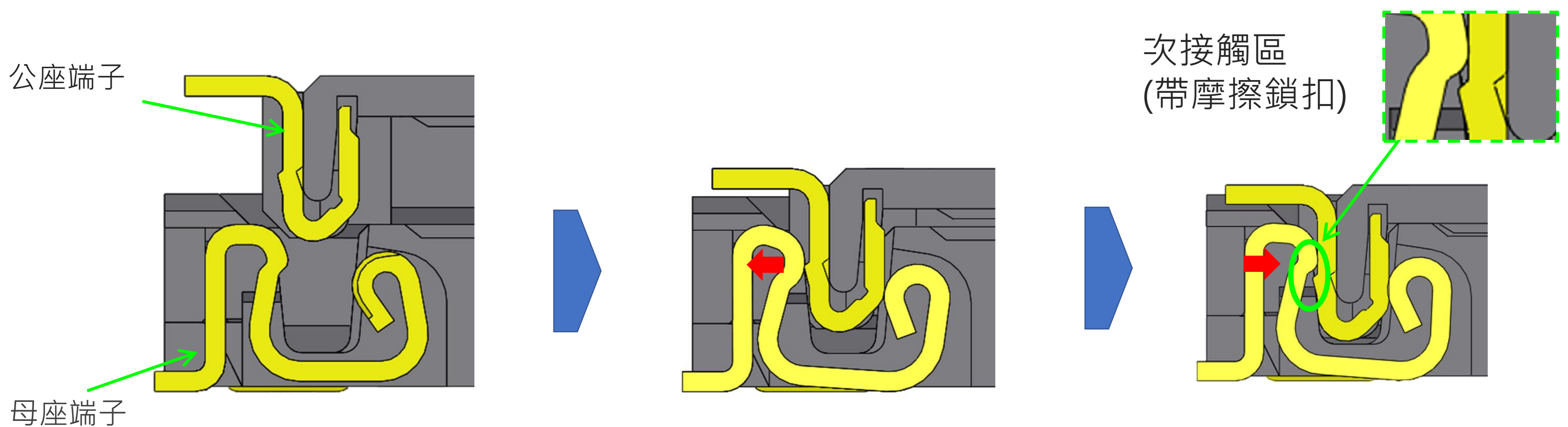
極數	6	10	16	20	24	26	30	34	40	80
其他同行	-	9.5	11.78	13.3	14.82	15.58	17.1	18.62	20.9	36.1
I-PEX	6.96	8.46	10.72	12.22	13.72	14.48	15.98	17.48	19.74	34.78
削減率	-	10.9%	9.0%	8.1%	7.4%	7.1%	6.5%	6.1%	5.6%	3.7%

(Unit: mm²)

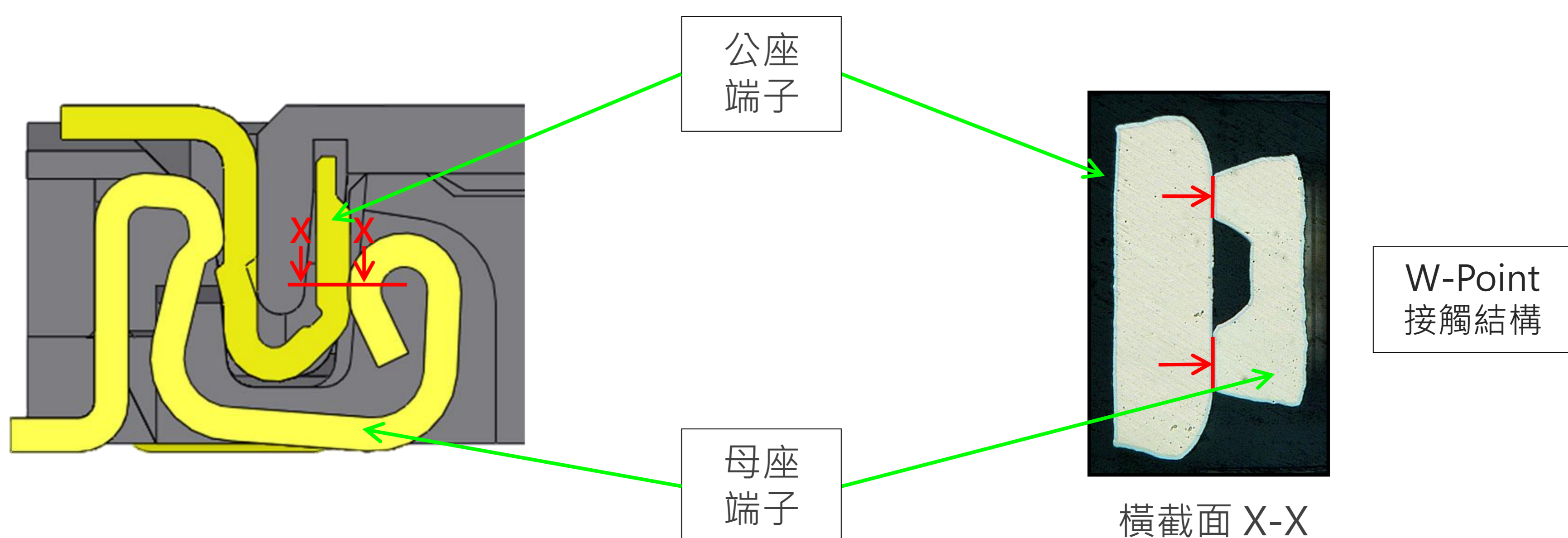


安裝區域節省 4 ~ 11%

▶ 穩定的保持力和插入時的手感



▶ W-point 接觸結構, 實現了高接觸可靠性

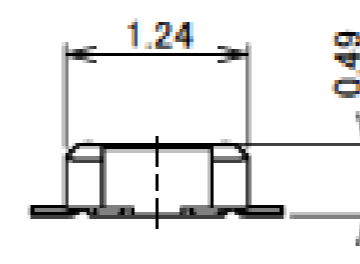
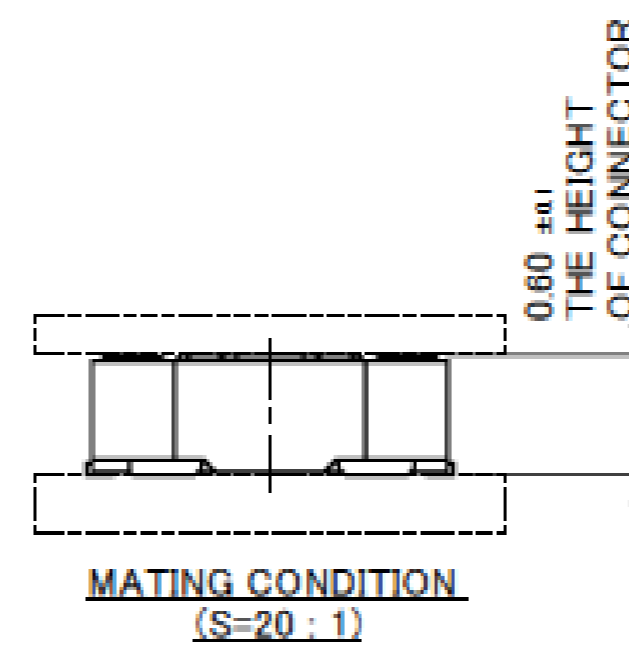
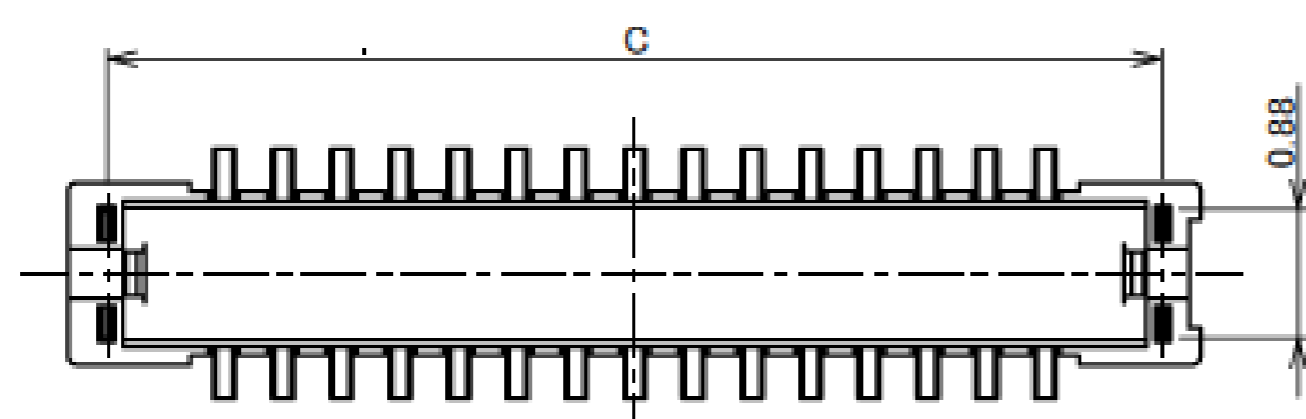
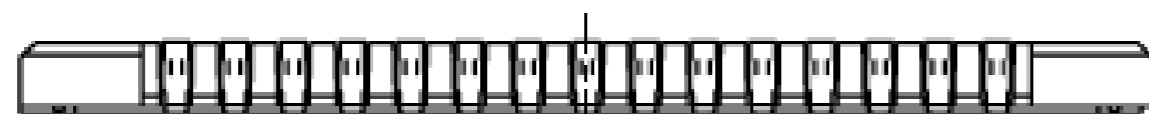
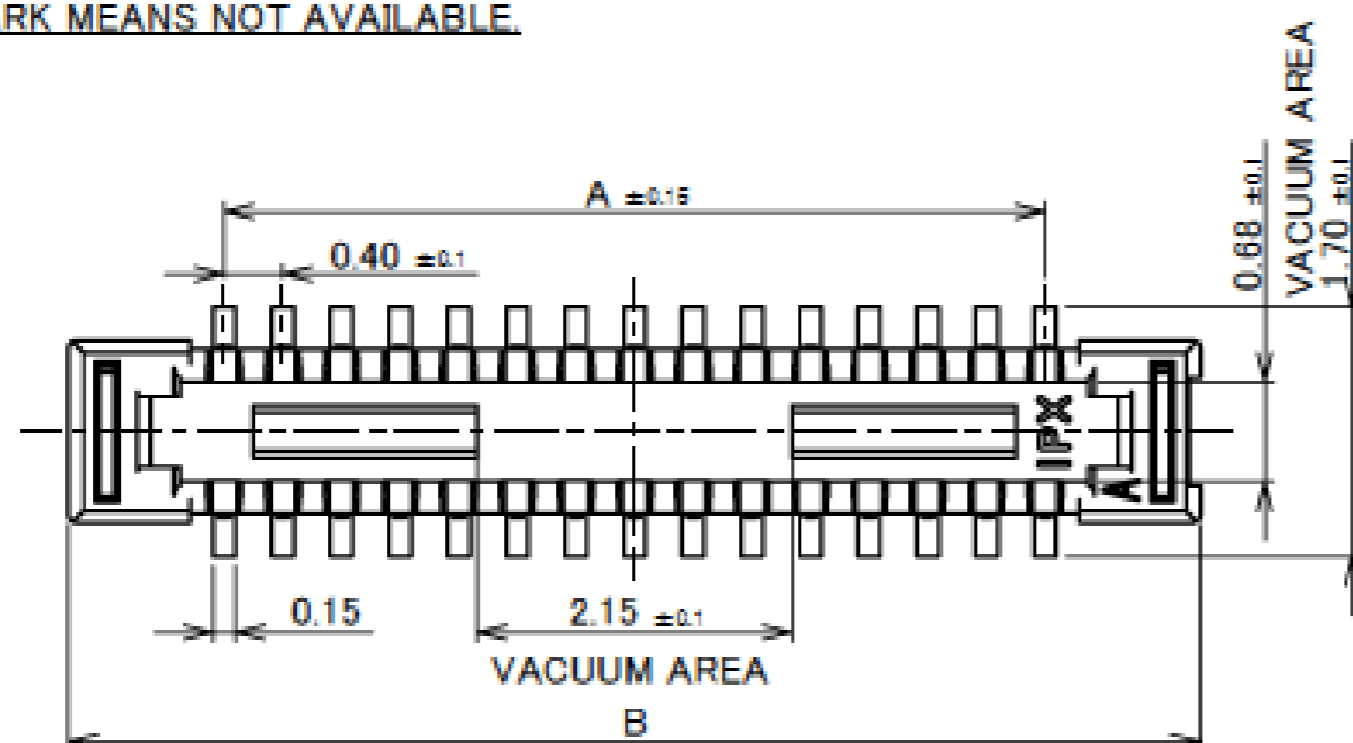


Component Parts Details

Plug Assembly

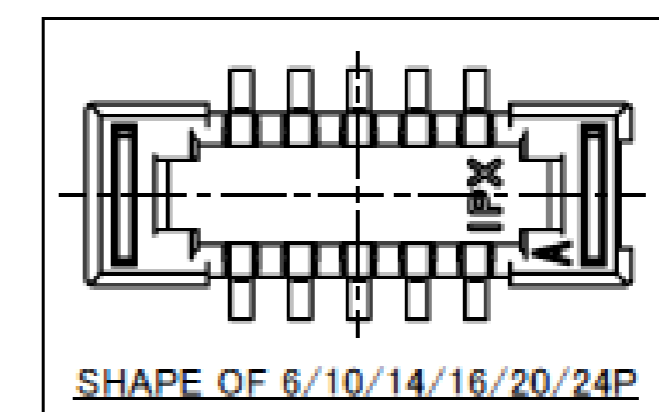
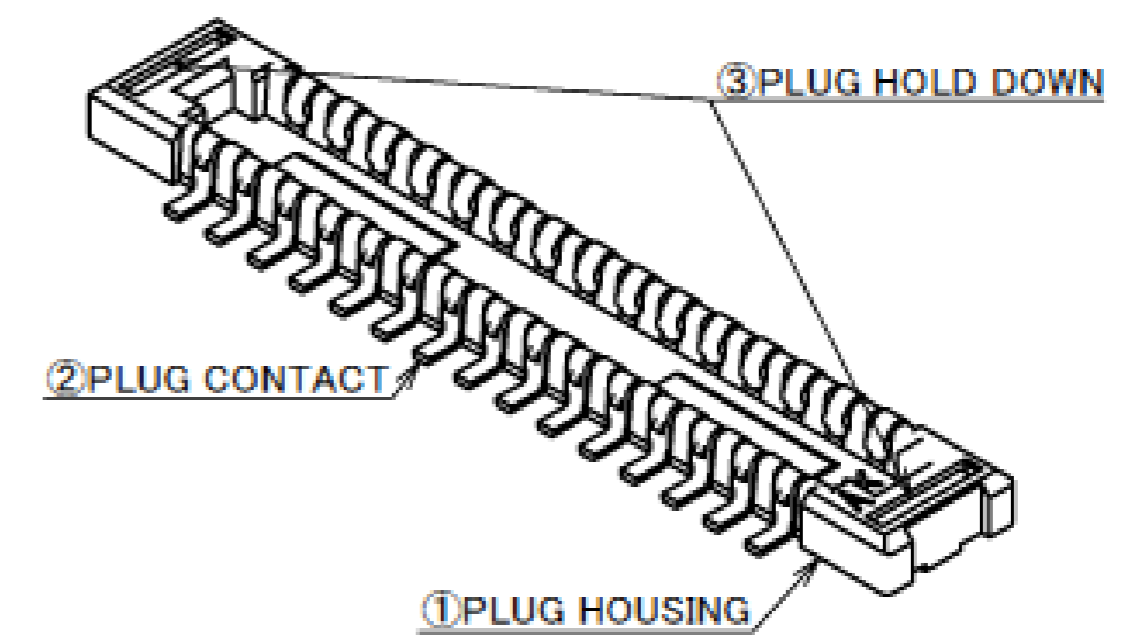
Recommended P/N		20641-0**E				
PART No.	Pos.	A	B	C	D	E
20641-006E	6	0.80	2.92	2.40	2.47	3.38
20641-010E	10	1.60	3.72	3.20	3.27	4.18
◆ 20641-014E	14	2.40	4.52	4.00	4.07	4.98
◆ 20641-016E	16	2.80	4.92	4.40	4.47	5.38
◆ 20641-020E	20	3.60	5.72	5.20	5.27	6.18
20641-024E	24	4.40	6.52	6.00	6.07	6.98
20641-030E	30	5.60	7.72	7.20	7.27	8.18
20641-034E	34	6.40	8.52	8.00	8.07	8.98
20641-040E	40	7.60	9.72	9.20	9.27	10.18
◆ 20641-080E	80	15.60	17.72	17.20	17.27	18.18

◆ MARK MEANS NOT AVAILABLE.



Halogen Free

RoHS Compliant



NO	DISCRPTION	MATERIAL	FINISH , REMARKS
3	HOLD DOWN	BRASS	ALL OVER Ni 1.27 μm MIN. SOLDERING PART Au 0.02 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.27 μm MIN. CONTACT PART Au 0.02 μm MIN. SOLDERING PART Au 0.02 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK

Plug Assembly

Cautions for Handling the Component

1. Using for PCB to FPC connection.

Usage of a FPC stiffener is recommended to prevent plug from damages during insertion and extraction of a FPC.

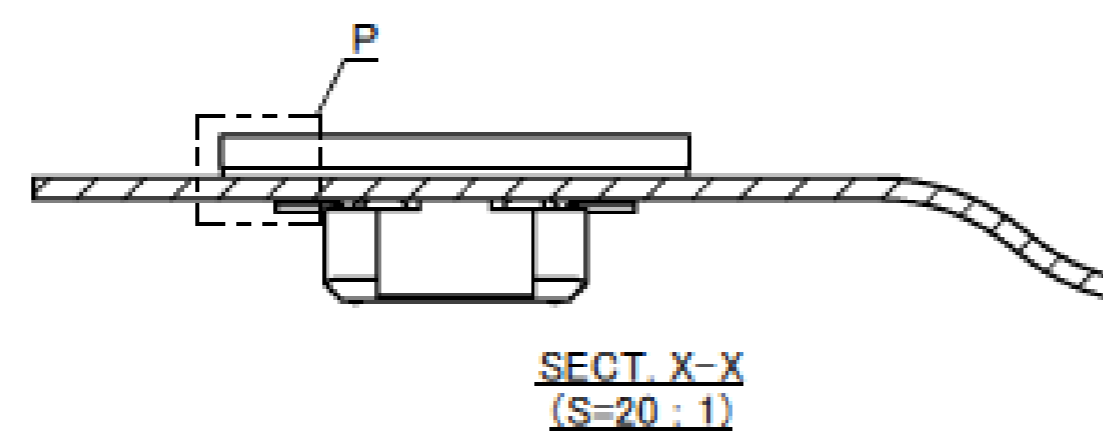
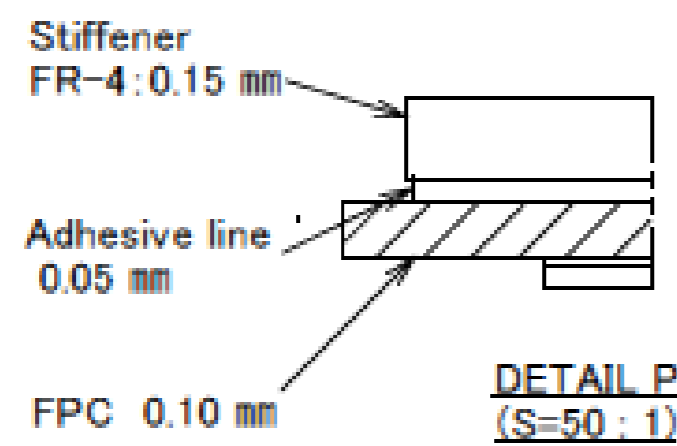
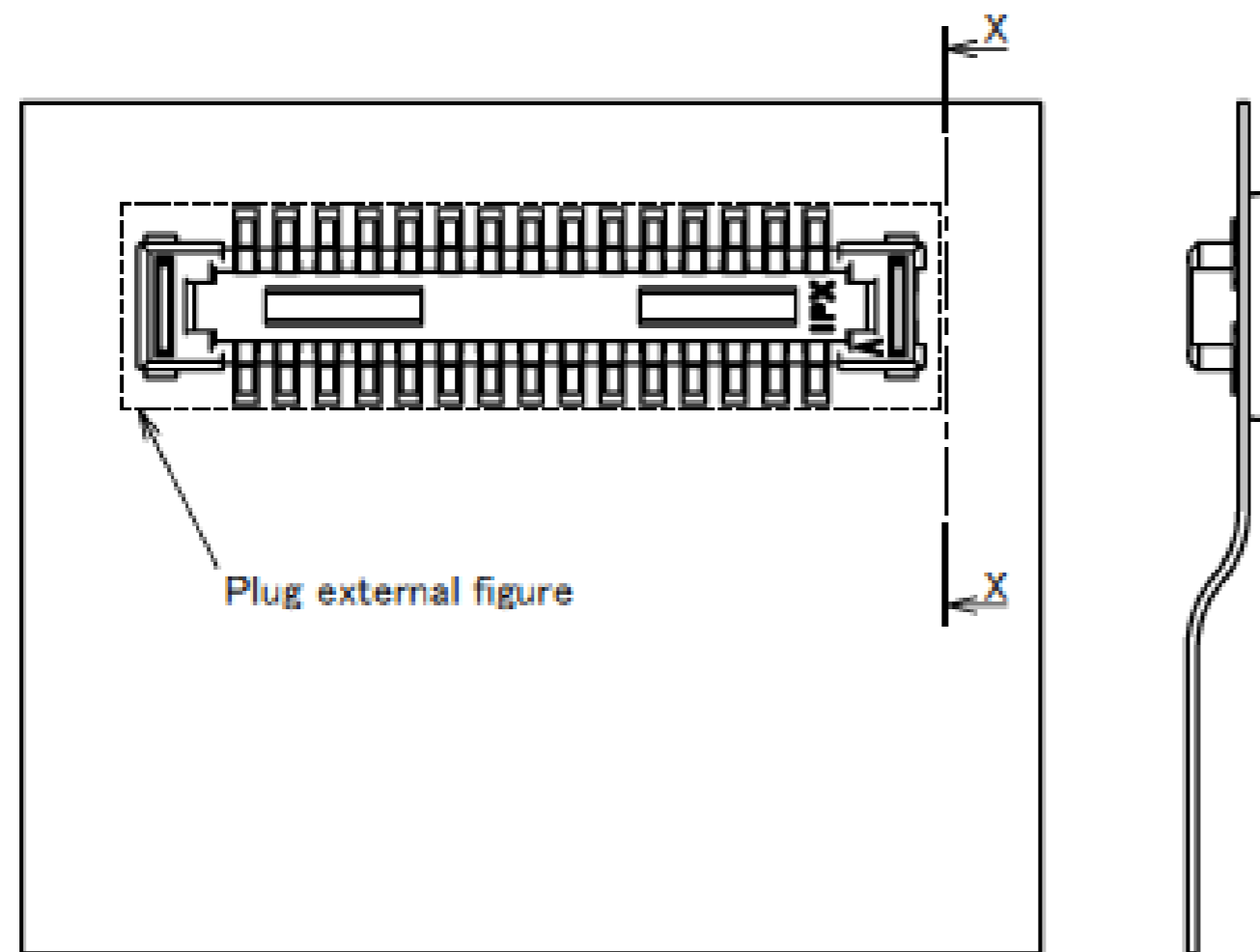
Recommended stiffener size :

Larger than plug external figure including footprint patterns. (See below)

Recommended FPC and stiffener thickness:

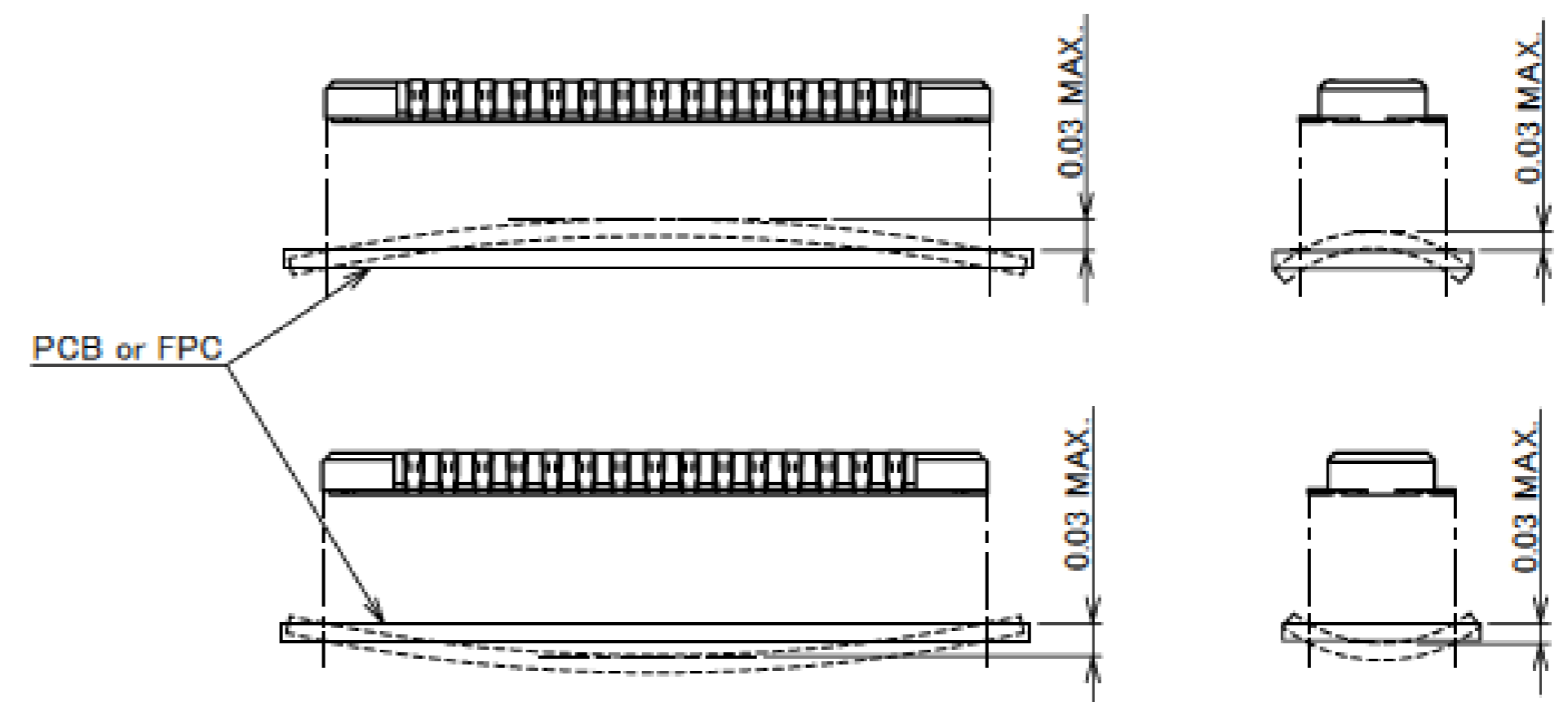
Minimum 0.3 mm

[Thickness example: 0.1 mm FPC + 0.05 mm adhesive bond + 0.15 mm Stiffener (FR-4) = total 0.3 mm]

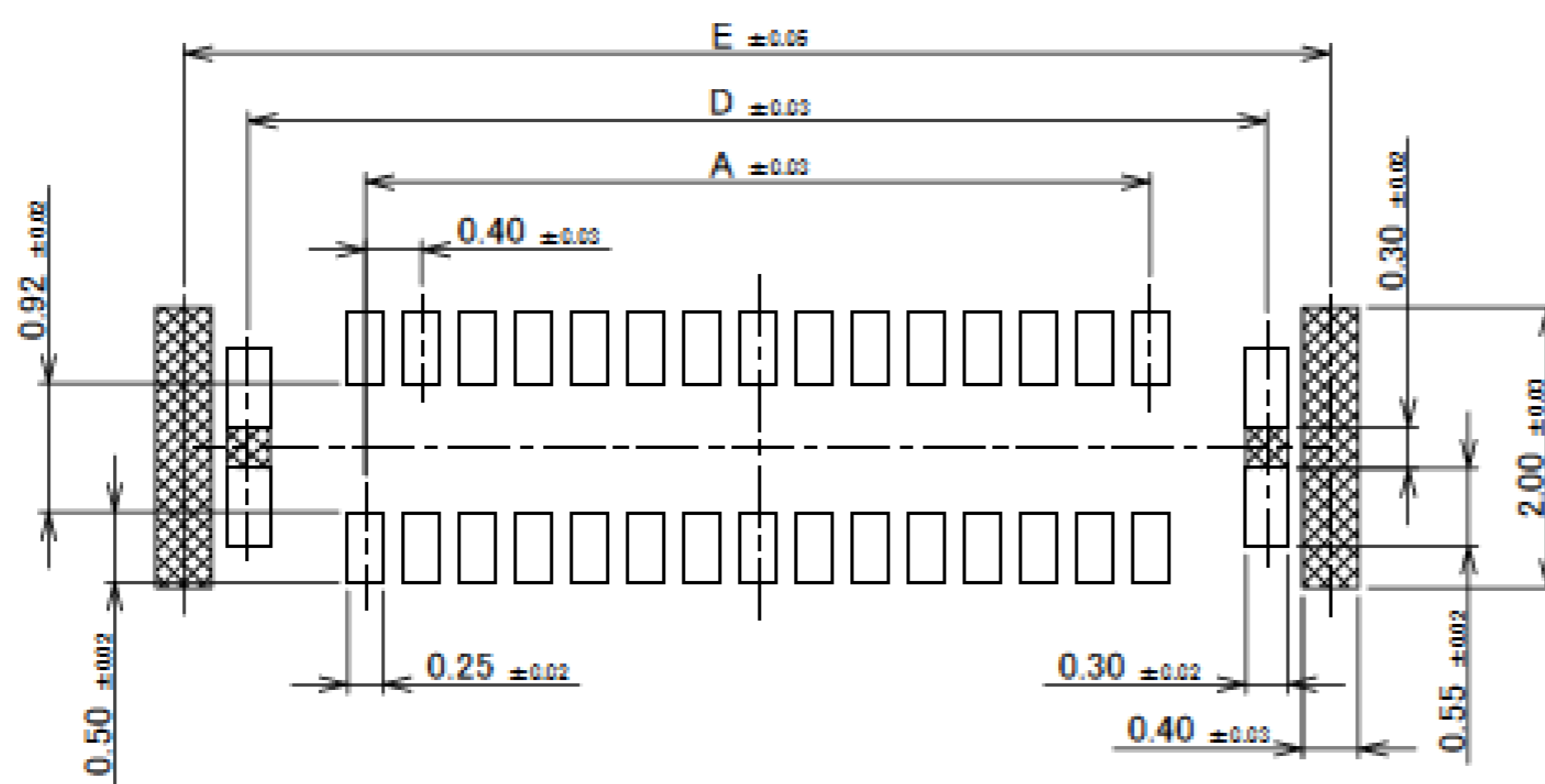


2. Warp of PCB or FPC

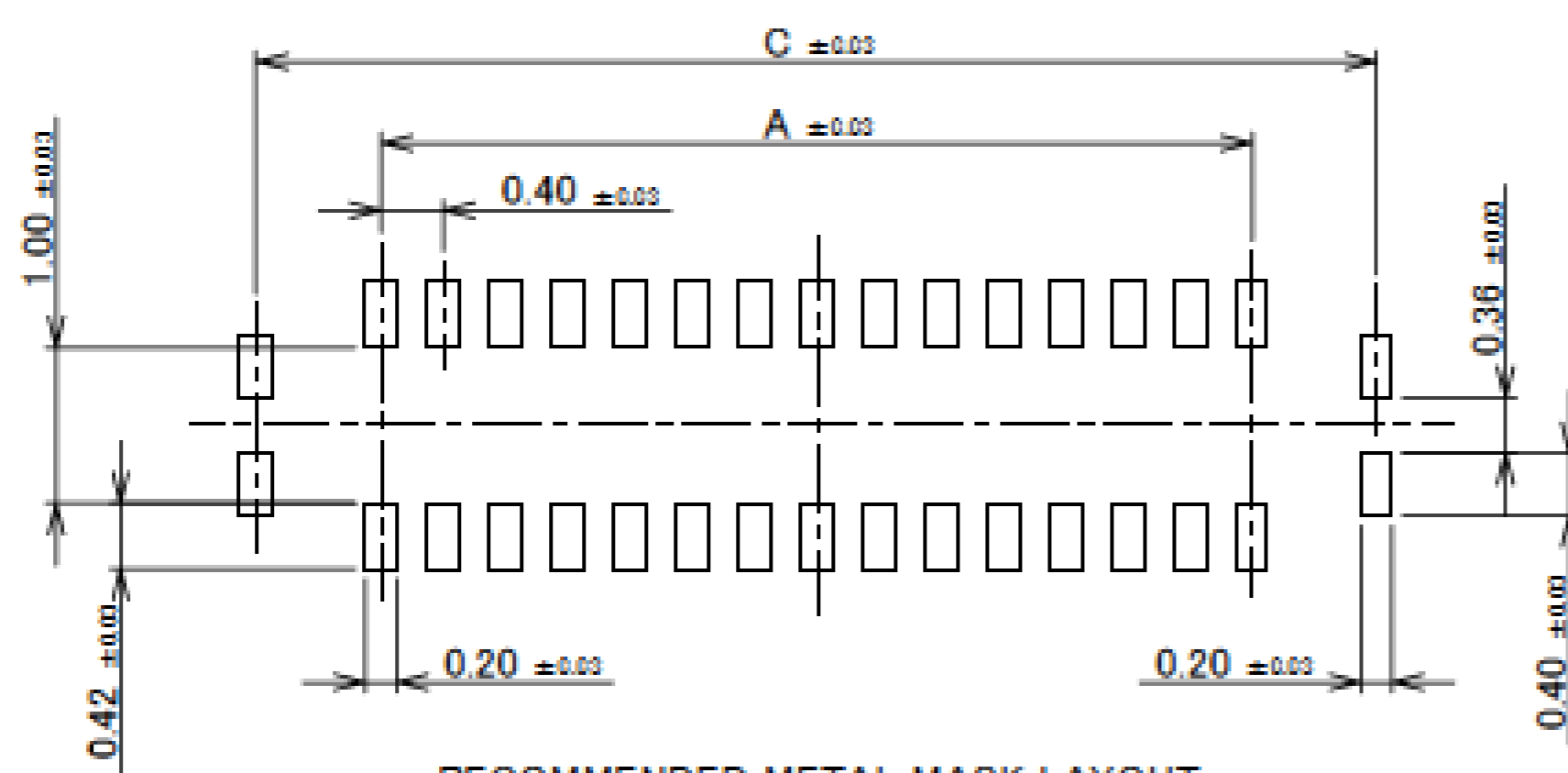
PCB /FPC warping is maximum 0.03 mm, with both ends of the plug.



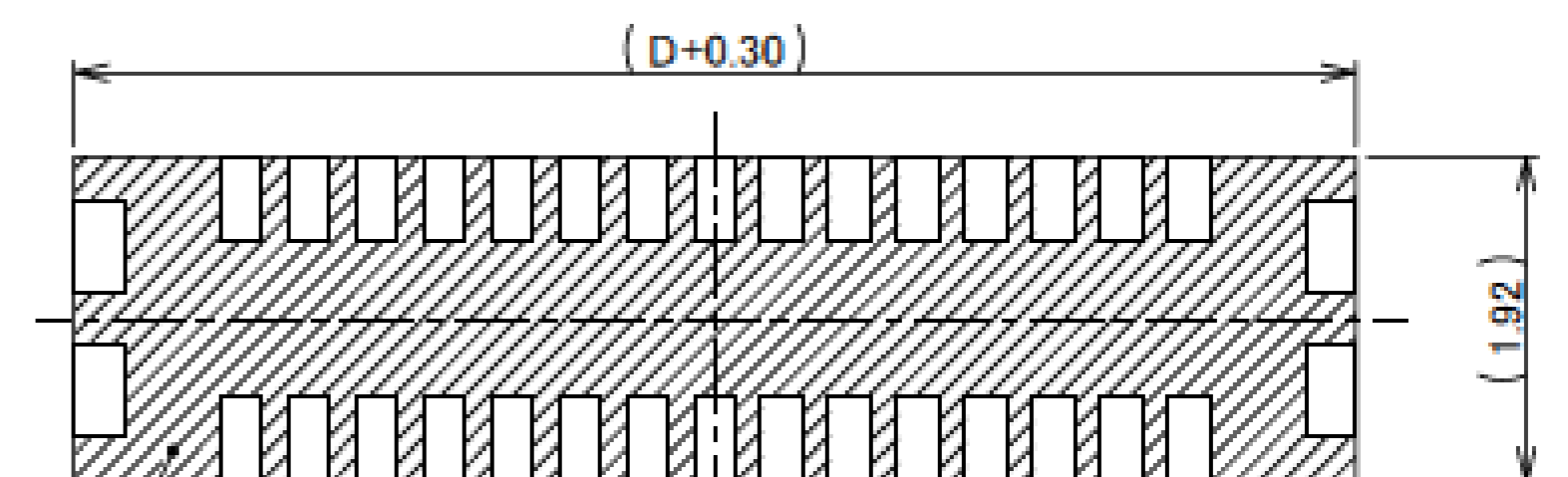
Rev.11



RECOMMENDED PATTERN LAYOUT



RECOMMENDED METAL MASK LAYOUT
THICKNESS: 0.12 mm



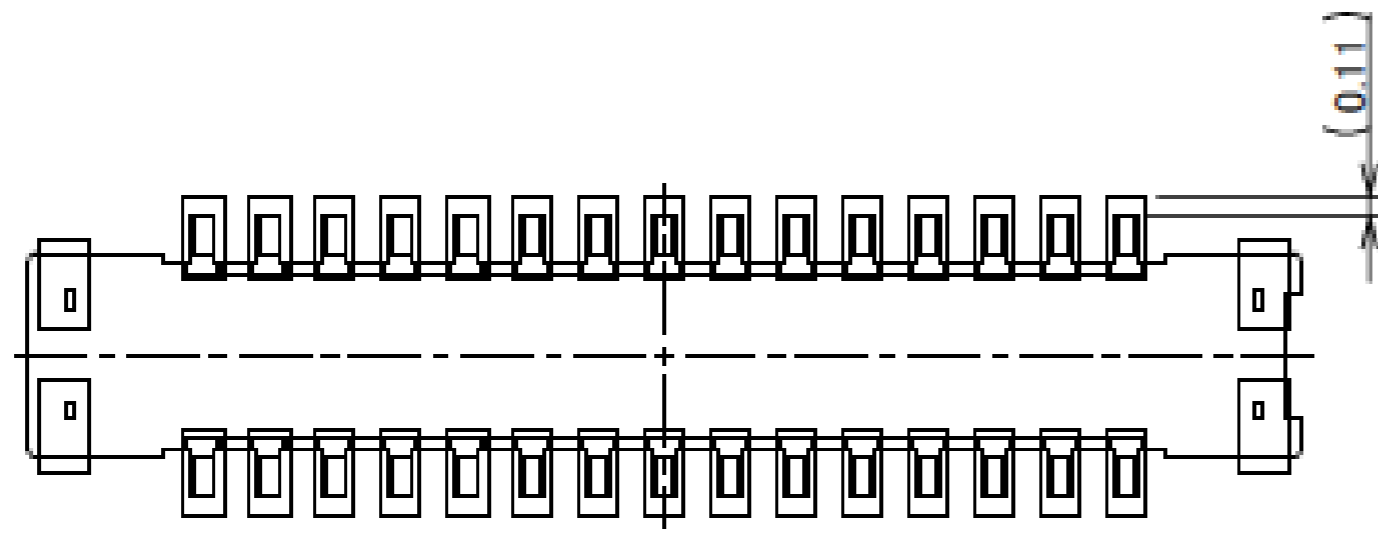
NOTE 1

NOTES

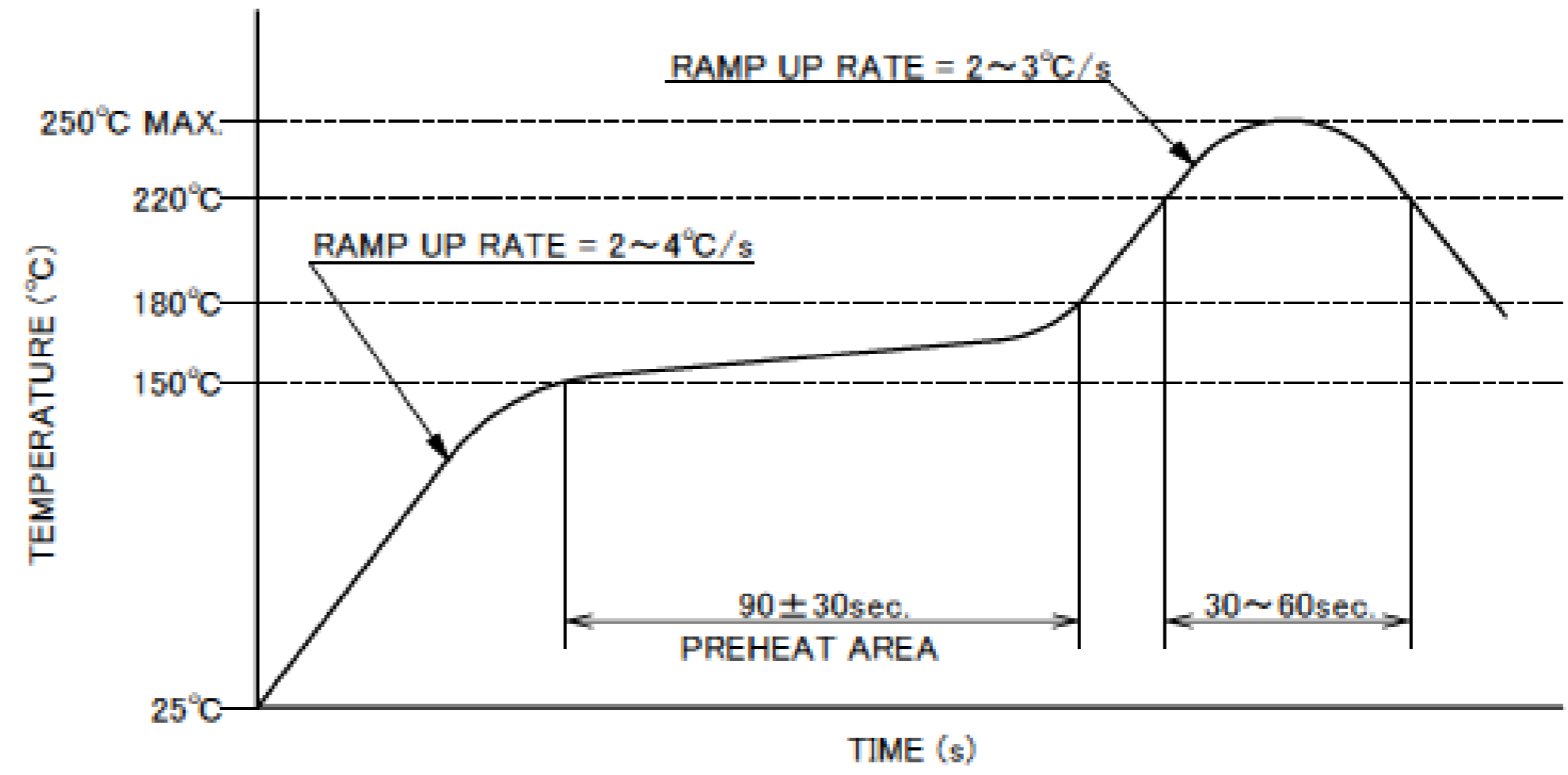
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.11

Plug Assembly



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.11

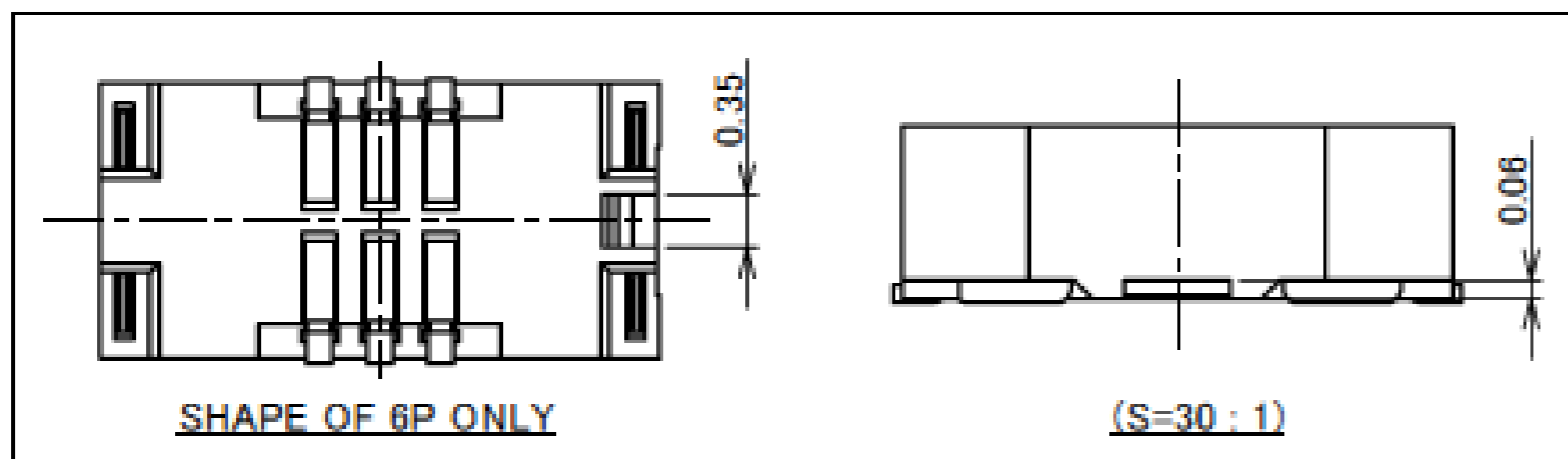
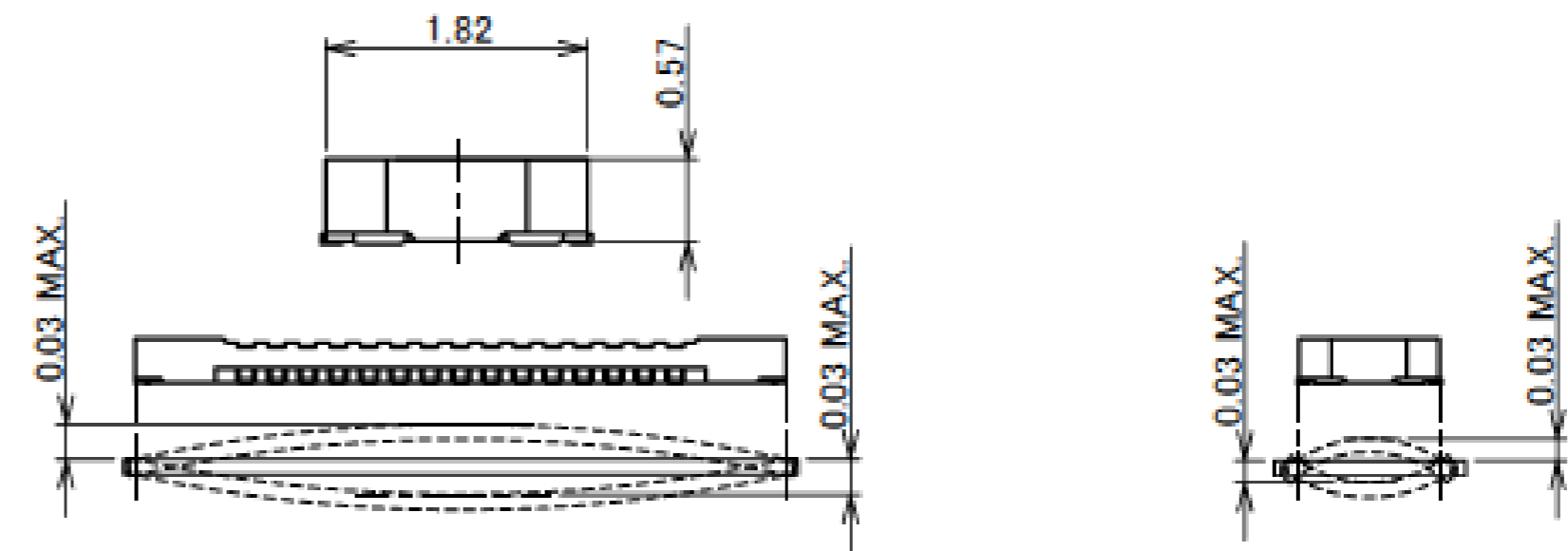
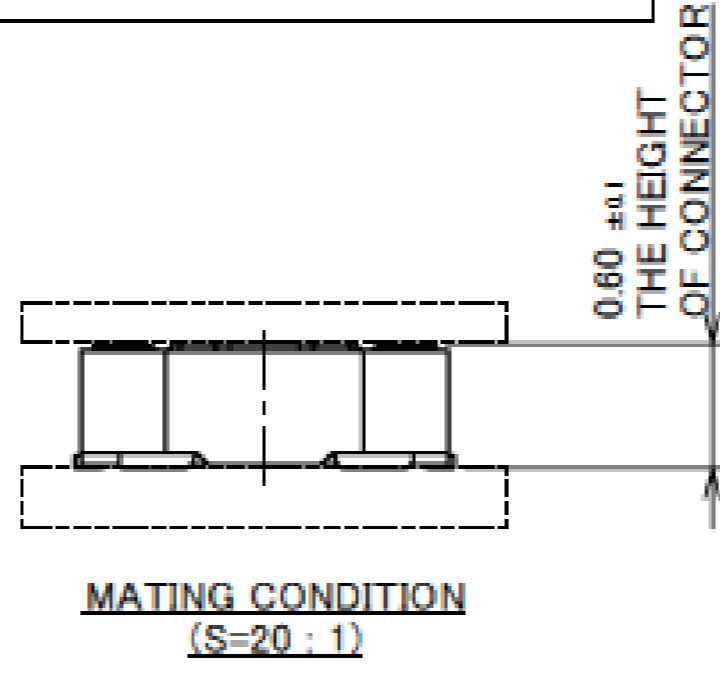
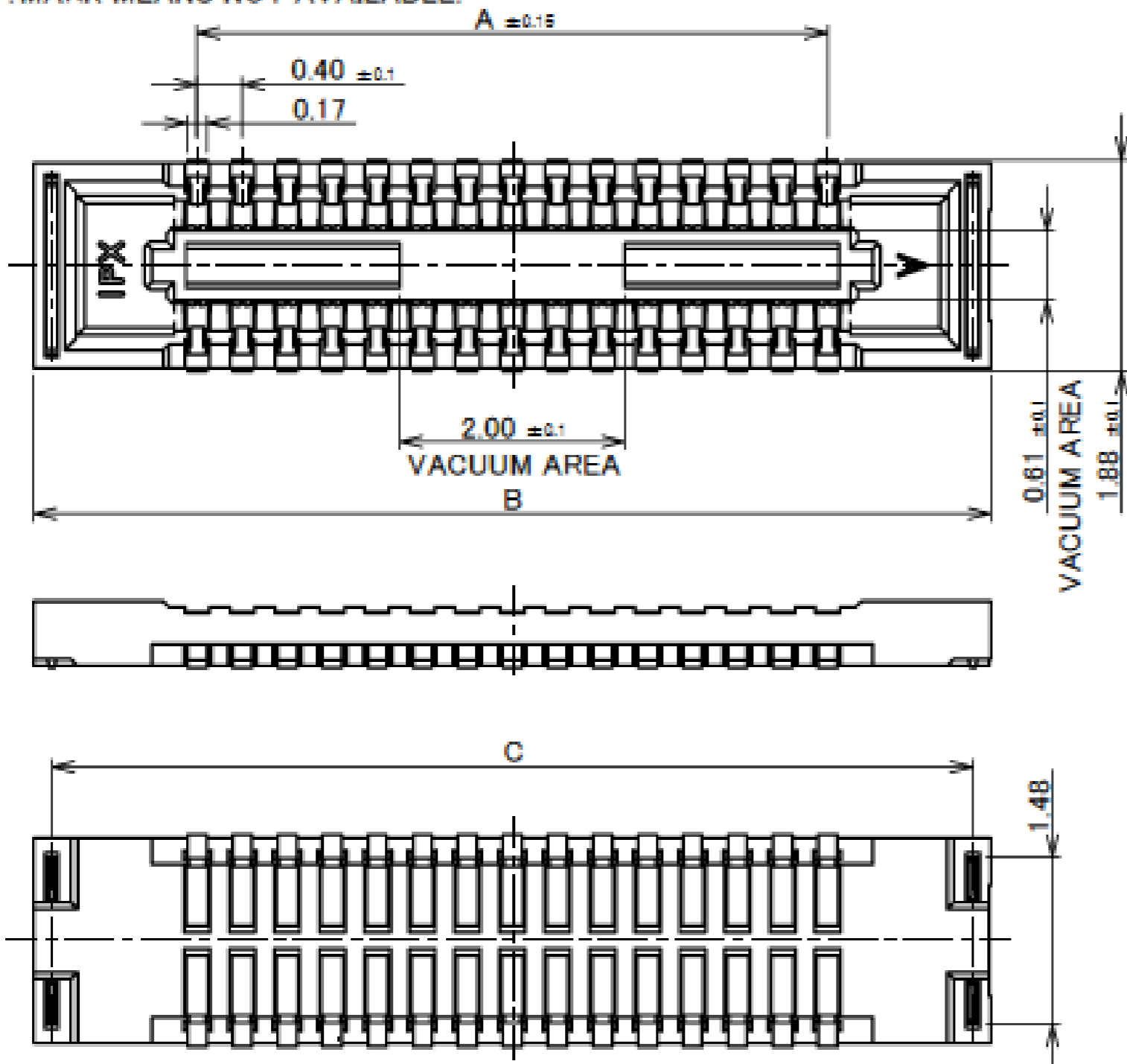
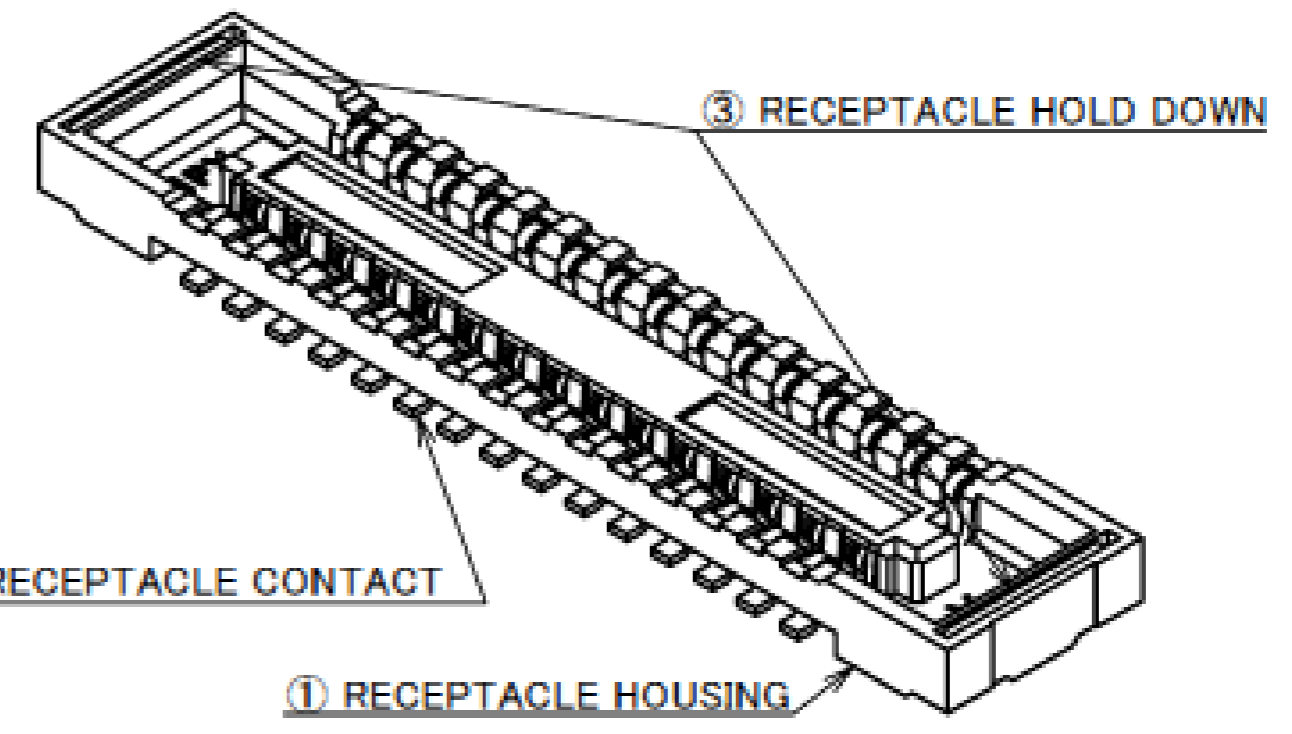
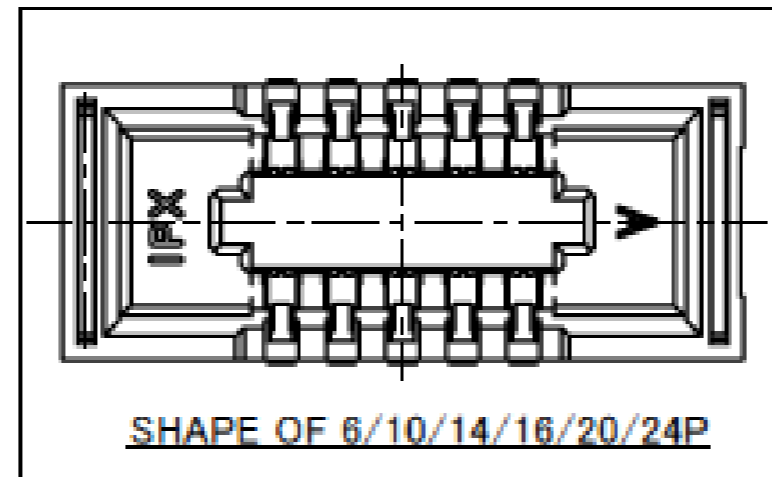
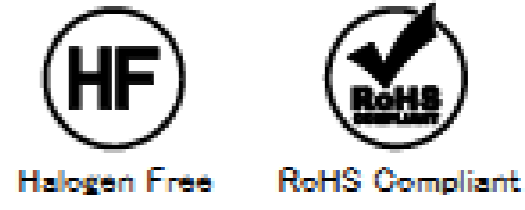
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20642-0**1E
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : \triangle 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,500Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	6P : 10.0N MAX. 30P : 36.0N MAX. 10P : 12.0N MAX. 34P : 40.8N MAX. 24P : 28.8N MAX. 40P : 48.0N MAX.
UNMATING FORCE (AFTER TEST)	6P : 1.2N MIN. 30P : 6.0N MIN. 10P : 2.0N MIN. 34P : 6.8N MIN. 24P : 4.8N MIN. 40P : 8.0N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-1998
TEST REPORT	TR-14088
PACKING STANDARD	PST-14060
INSTRUCTION MANUAL	HIM-14018
APPEARANCE CRITERIA No.	QLS-A***

Rev.11

Receptacle Assembly

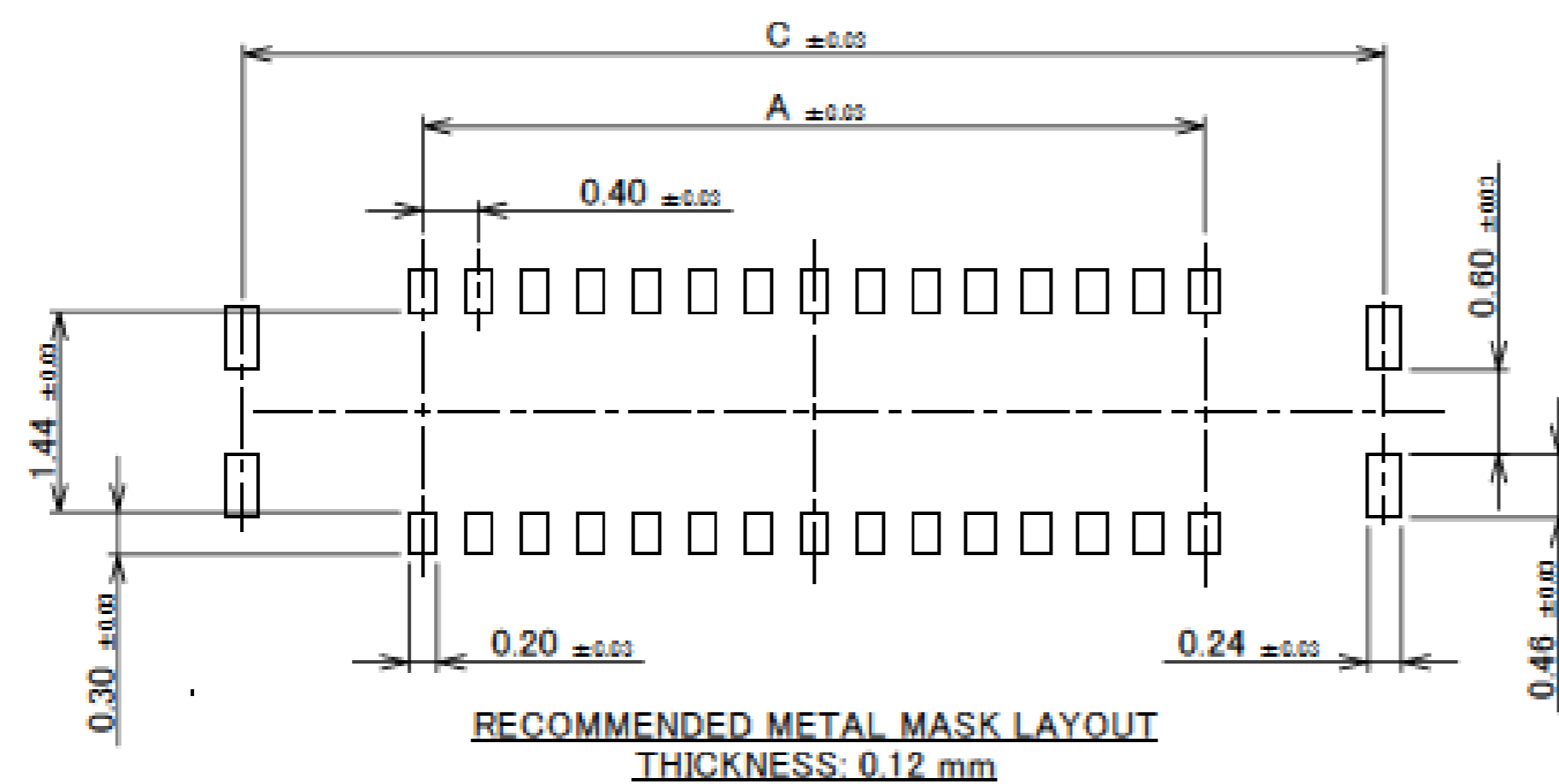
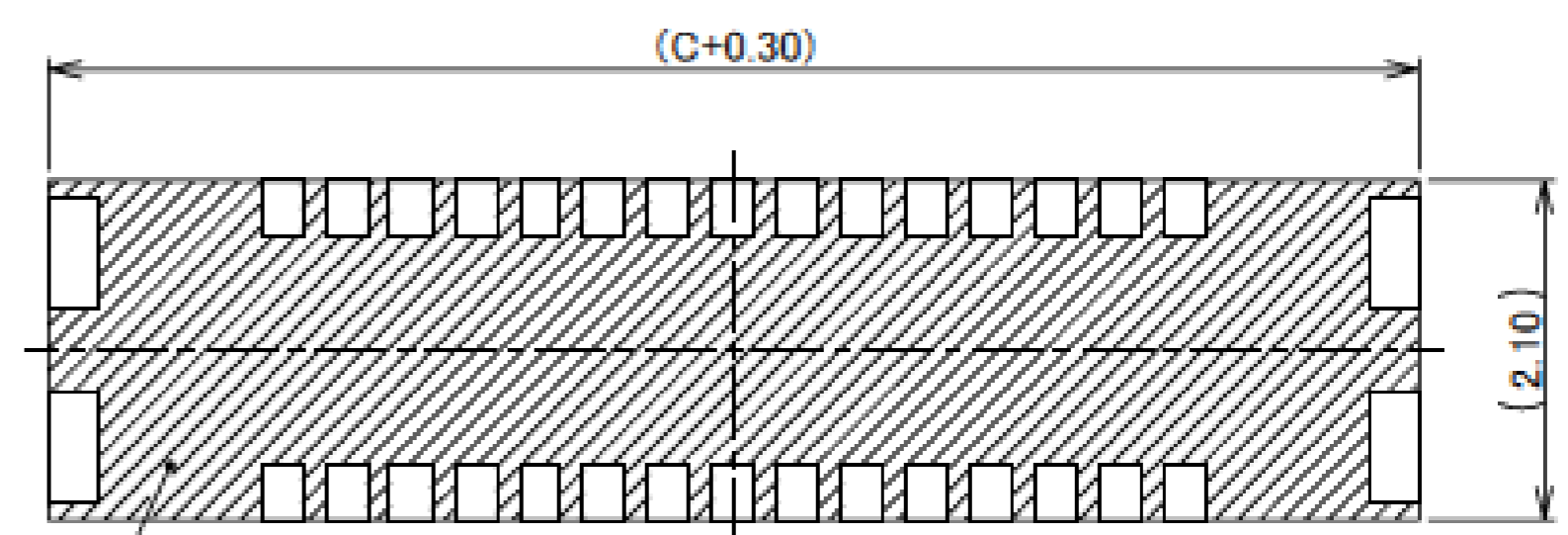
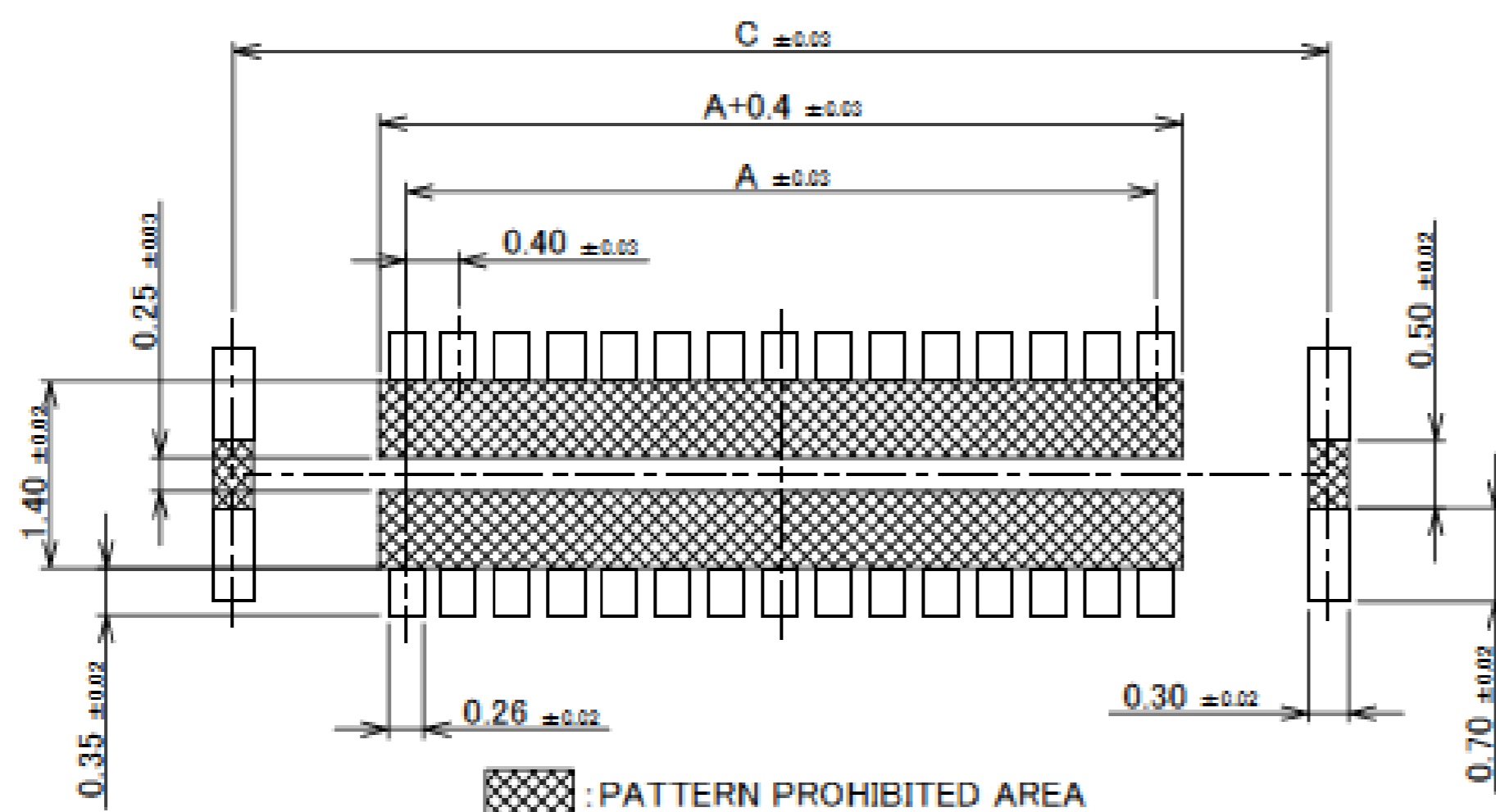
Recommended P/N		20642-0**E			
PART No.	Pos.	A	B	C	
20642-006E	6	0.80	3.70	3.38	
20642-010E	10	1.60	4.50	4.18	
◆ 20642-014E	14	2.40	5.30	4.98	
◆ 20642-016E	16	2.80	5.70	5.38	
◆ 20642-020E	20	3.60	6.50	6.18	
20642-024E	24	4.40	7.30	6.98	
20642-030E	30	5.60	8.50	8.18	
20642-034E	34	6.40	9.30	8.98	
20642-040E	40	7.60	10.50	10.18	
◆ 20642-080E	80	15.60	18.50	18.18	

◆ : MARK MEANS NOT AVAILABLE.



NO	DISCRIPTION	MATERIAL	FINISH , REMARKS
3	HOLD DOWN	BRASS	ALL OVER Ni 1.27 μm MIN. SOLDERING PART Au 0.02 μm MIN.
2	CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.27 μm MIN. CONTACT PART Au 0.03 μm MIN. SOLDERING PART Au 0.02 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK

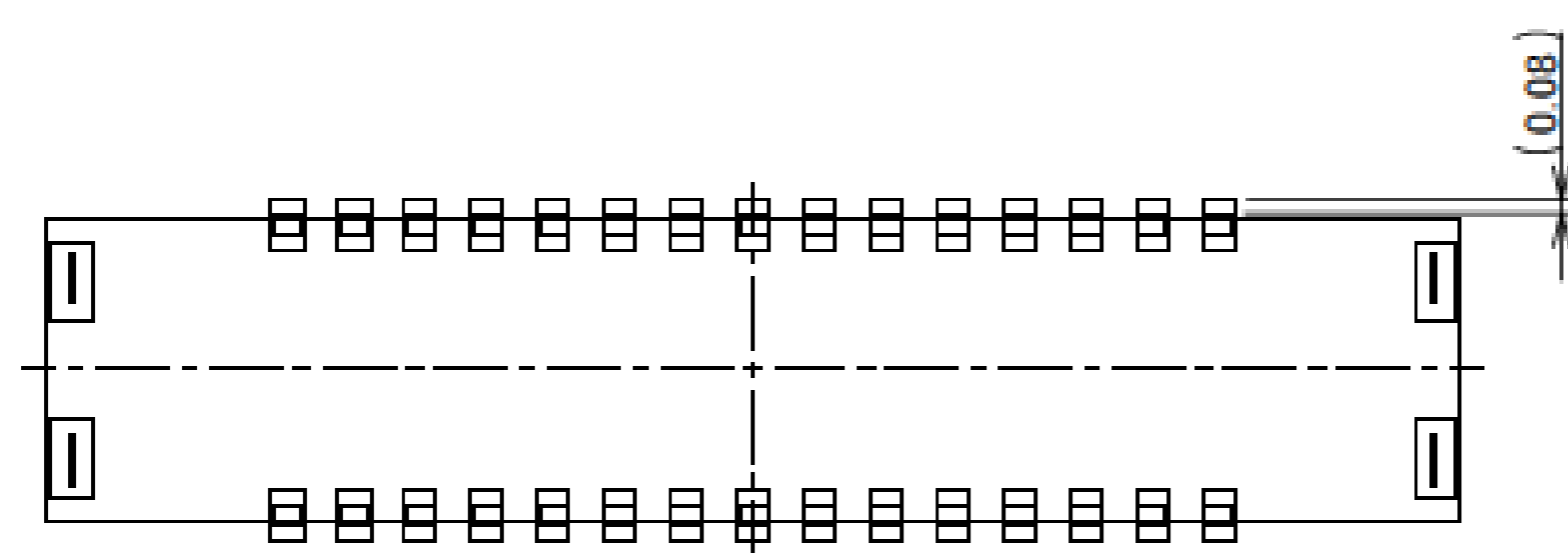
Rev.10



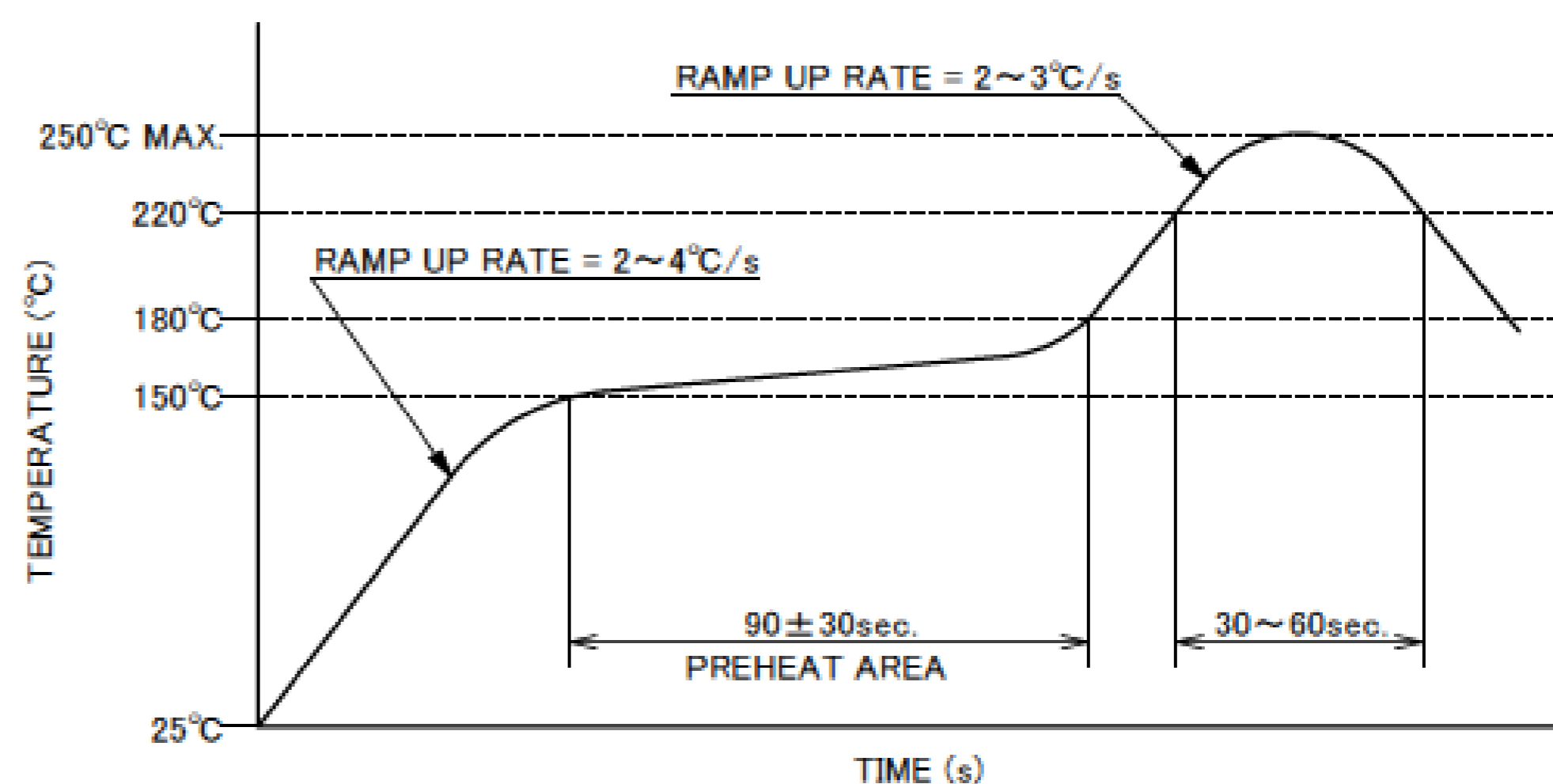
NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.10

Receptacle Assembly



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.10

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20641-0**E
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : $\leq 120\text{mohm}$ MAX.
INSULATION RESISTANCE	INITIAL : 1,500Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL)	6P : 10.0N MAX. 30P : 36.0N MAX. 10P : 12.0N MAX. 34P : 40.8N MAX. 24P : 28.8N MAX. 40P : 48.0N MAX.
UNMATING FORCE (AFTER TEST)	6P : 1.2N MIN. 30P : 6.0N MIN. 10P : 2.0N MIN. 34P : 6.8N MIN. 24P : 4.8N MIN. 40P : 8.0N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-1998
TEST REPORT	TR-14088
PACKING STANDARD	PST-14061
INSTRUCTION MANUAL	HIM-14018
APPEARANCE CRITERIA No.	QLS-A***

Rev.10

Custom Connectors Available

 RF Connector

MHF® series



Micro-coaxial/Twinax/
Discrete Wire Connector



CABLINE® series



Optical Module

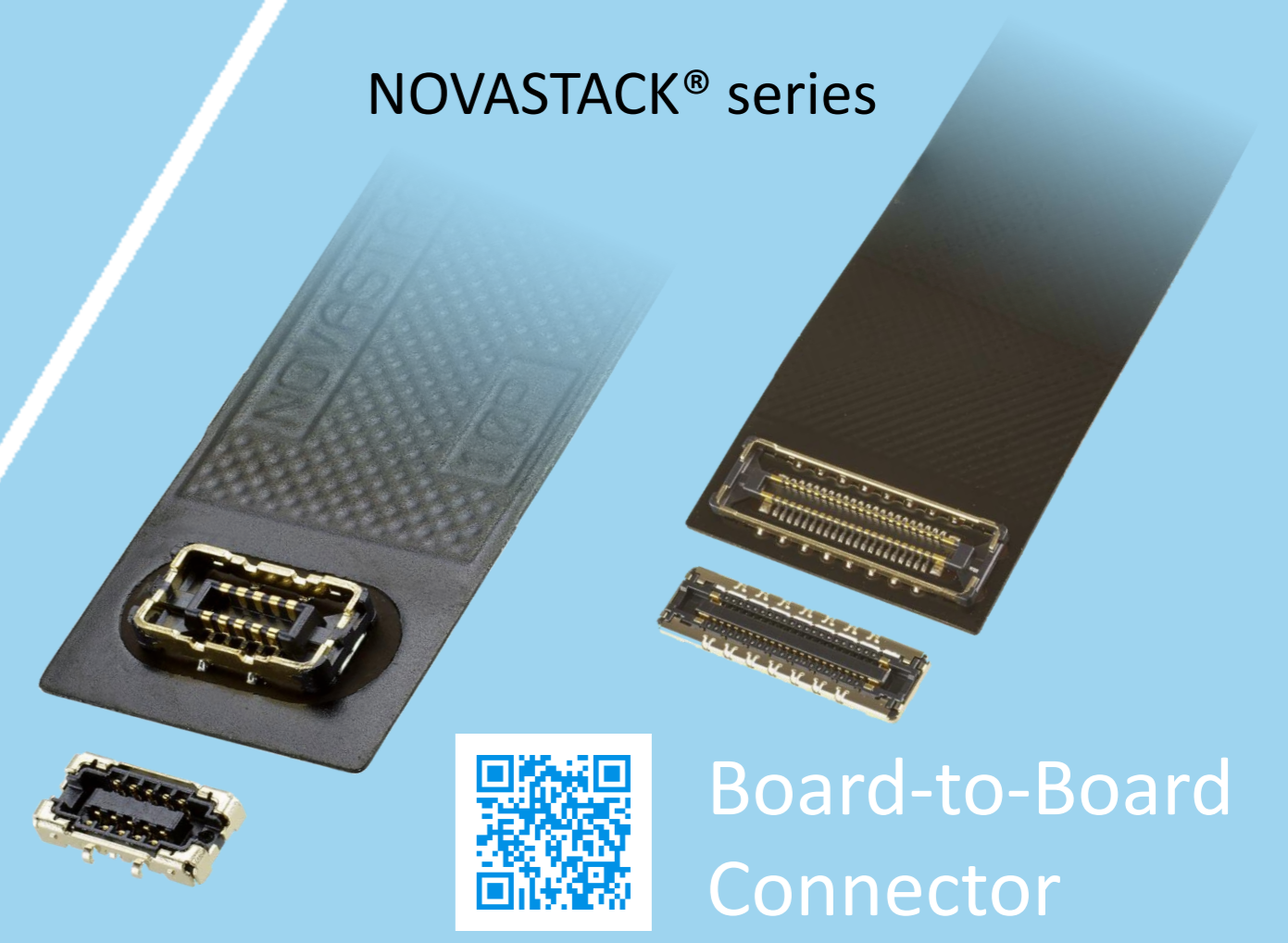
LIGHTPASS® series



NOVASTACK® series



Board-to-Board Connector



Power Connector/
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC Connector



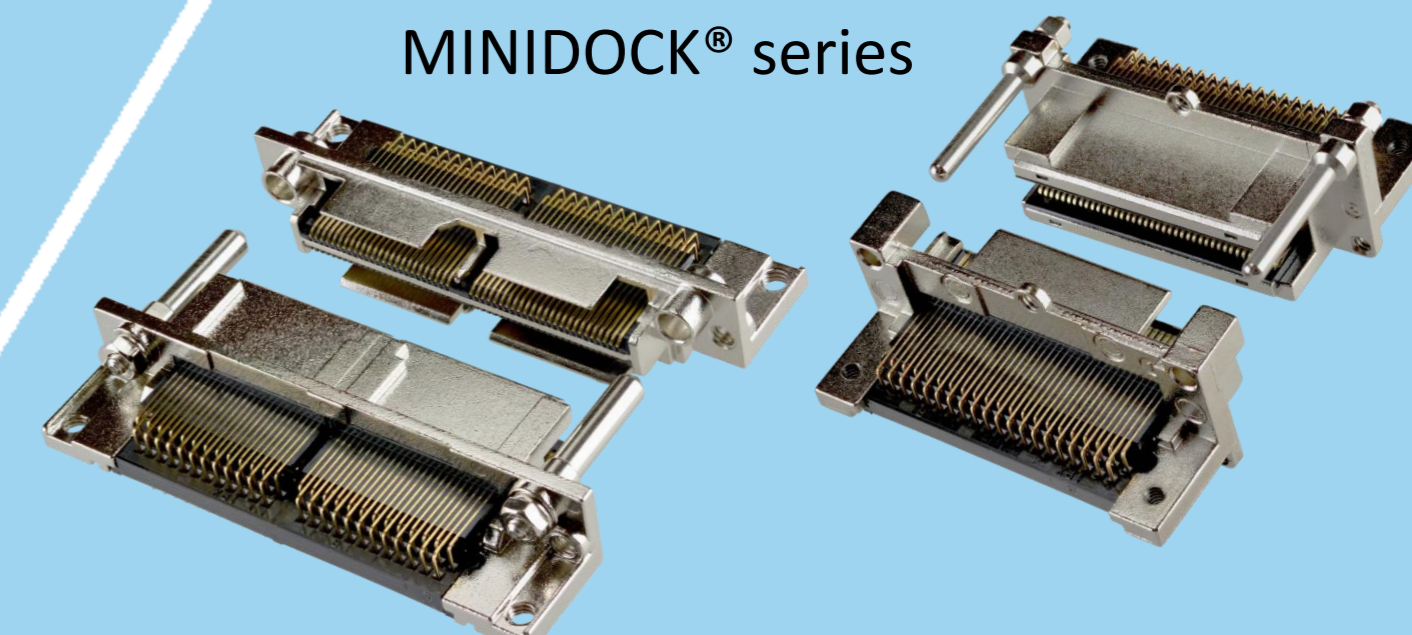
Inquiry



MINIDOCK® series



I/O Connector



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Contact your sales representative or more detailed information.

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