

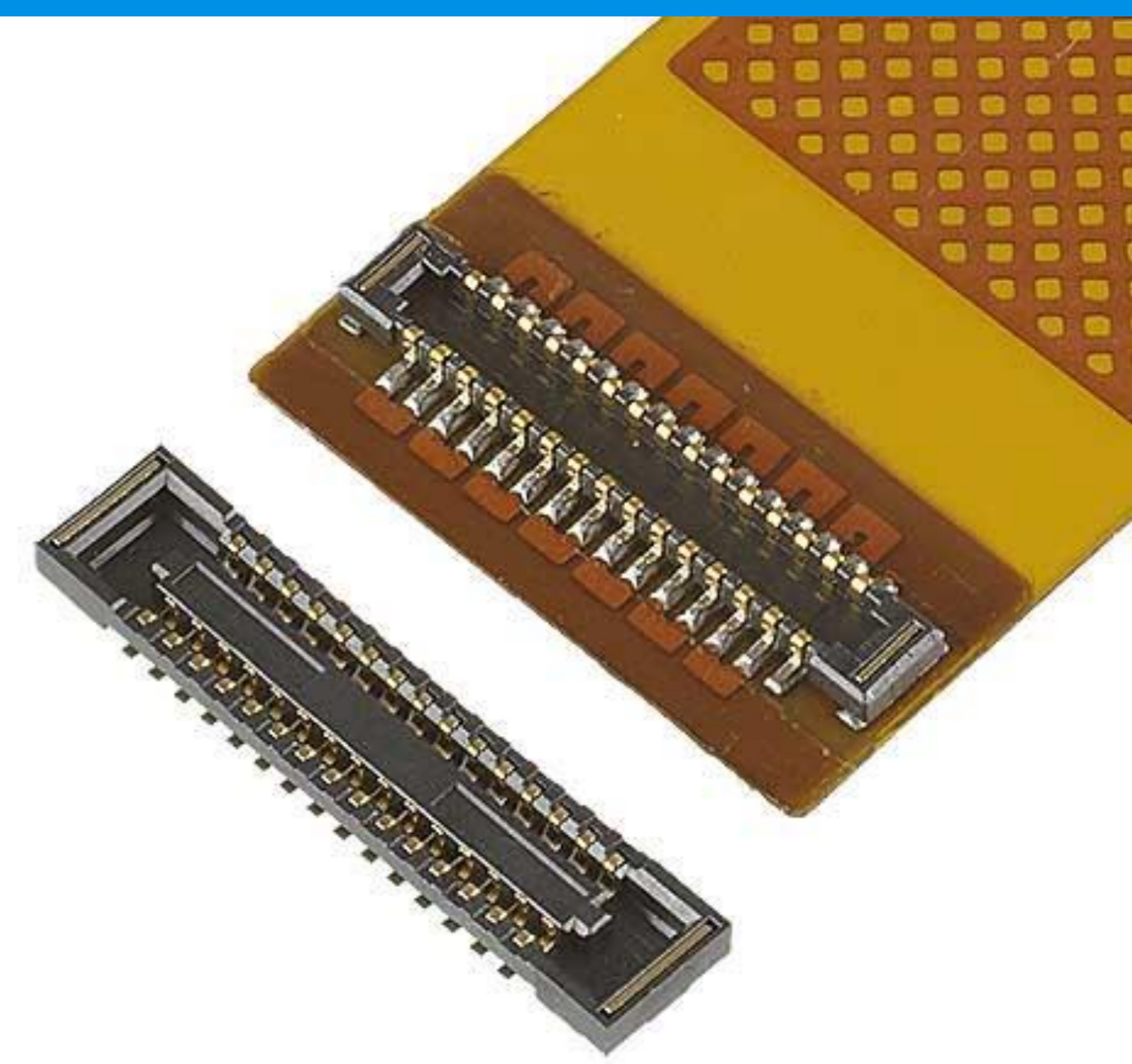
NOVASTACK® 4

小型低背コネクタ、0.4 mm ピッチ、嵌合高さ0.6 mm、奥行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

*記載のない極数の対応状況についてはお問い合わせください。

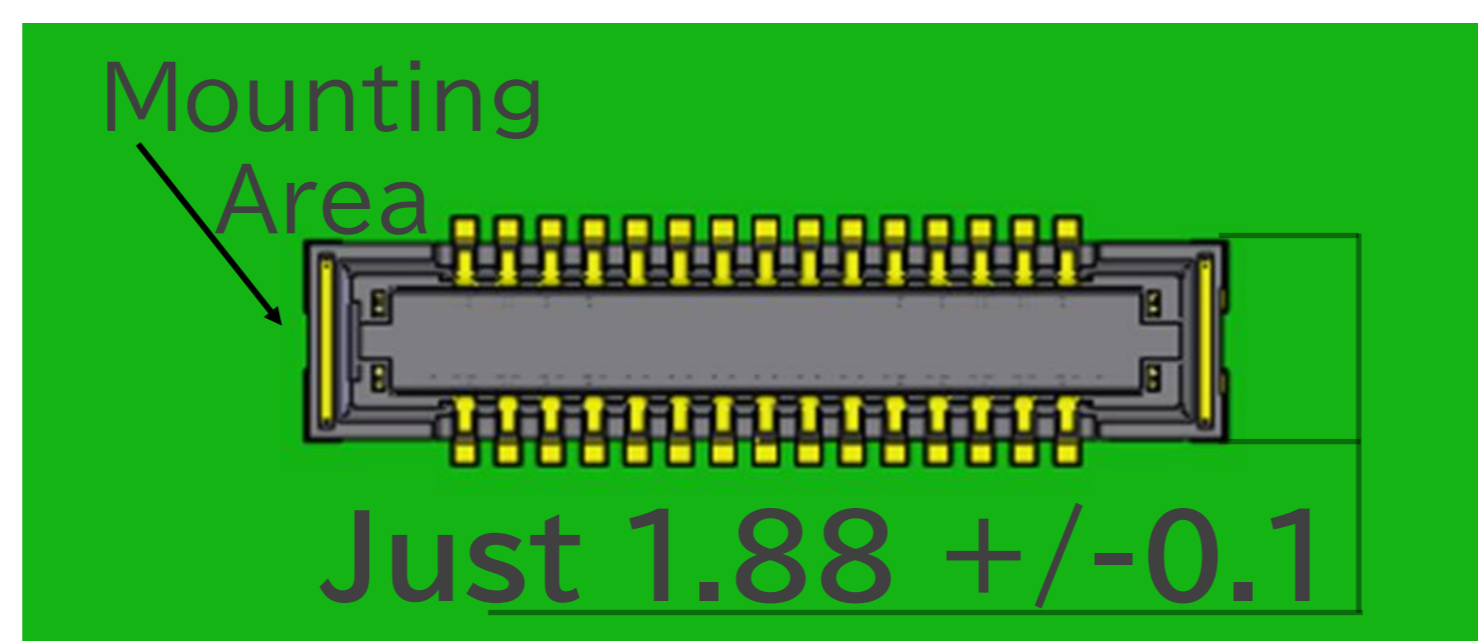


▶ 基板占有面積を抑える省スペース設計（奥行1.88 mm）

RED: Under Development

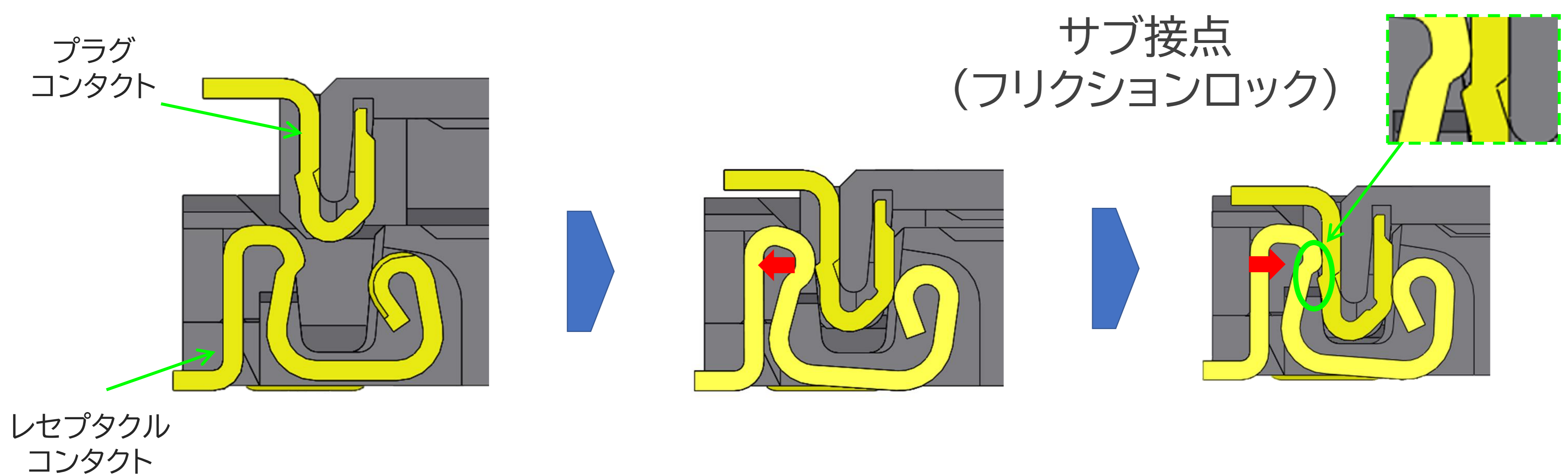
Position	6	10	16	20	24	26	30	34	40	80
Competitor	-	9.5	11.78	13.3	14.82	15.58	17.1	18.62	20.9	36.1
I-PEX	6.96	8.46	10.72	12.22	13.72	14.48	15.98	17.48	19.74	34.78
Decreasing Rate	-	10.9%	9.0%	8.1%	7.4%	7.1%	6.5%	6.1%	5.6%	3.7%

(Unit: mm²)

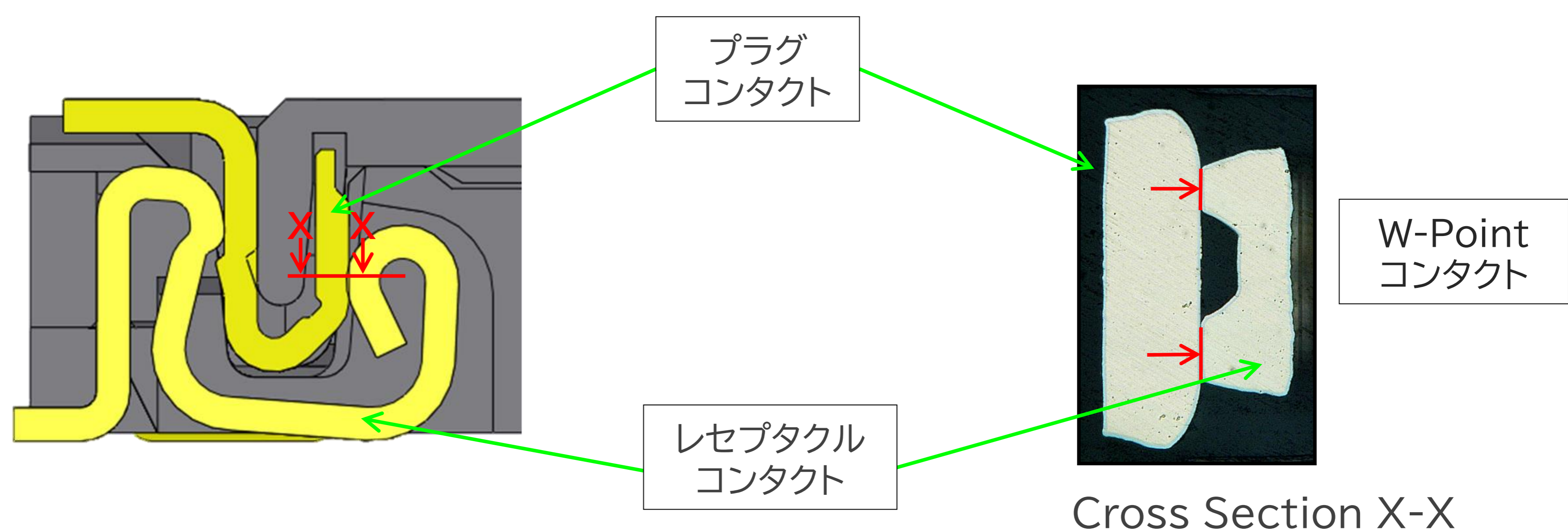


4 ~ 11%の実装エリア削減

▶ 安定した保持力とクリック感



▶ 独自のW-Pointコンタクト構造による高い接触信頼性

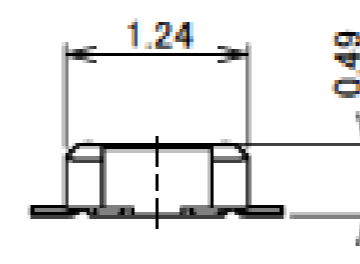
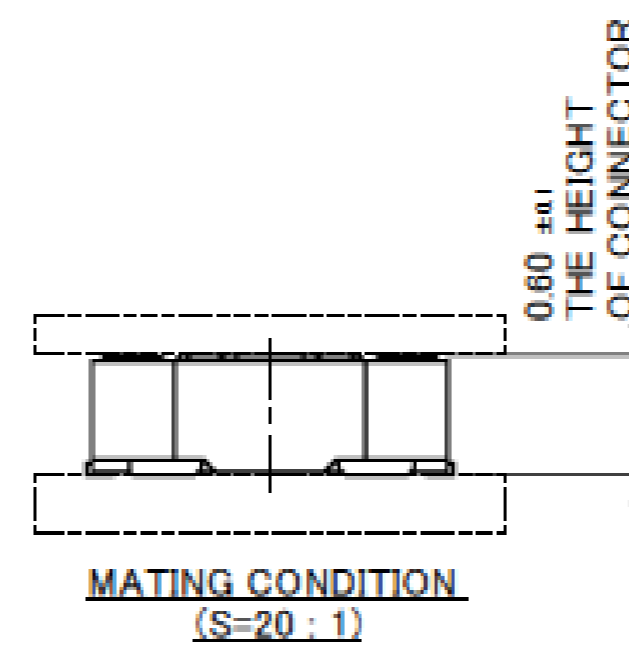
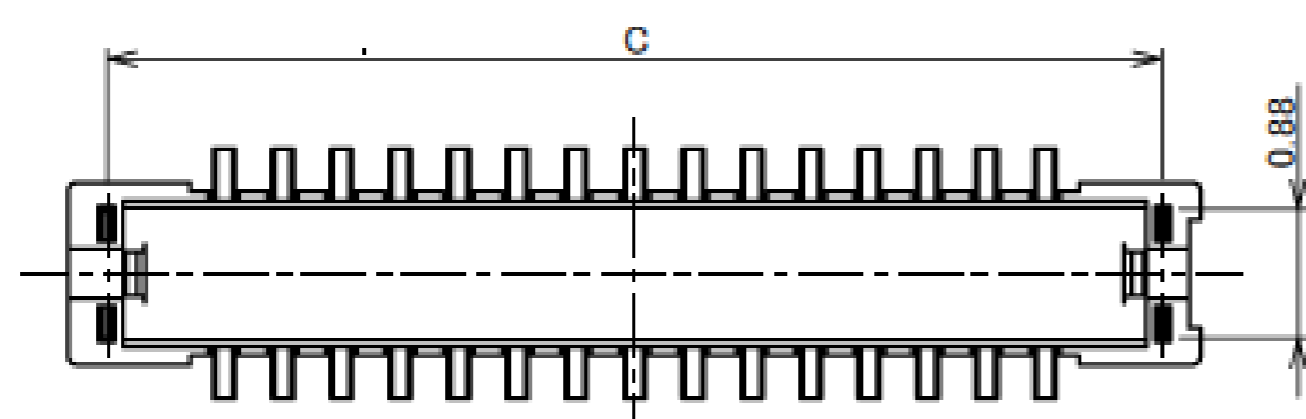
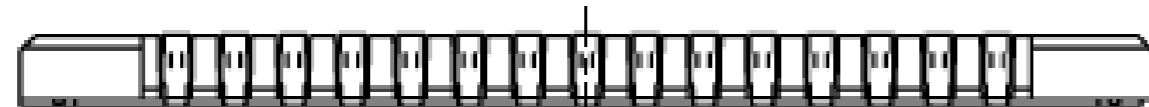
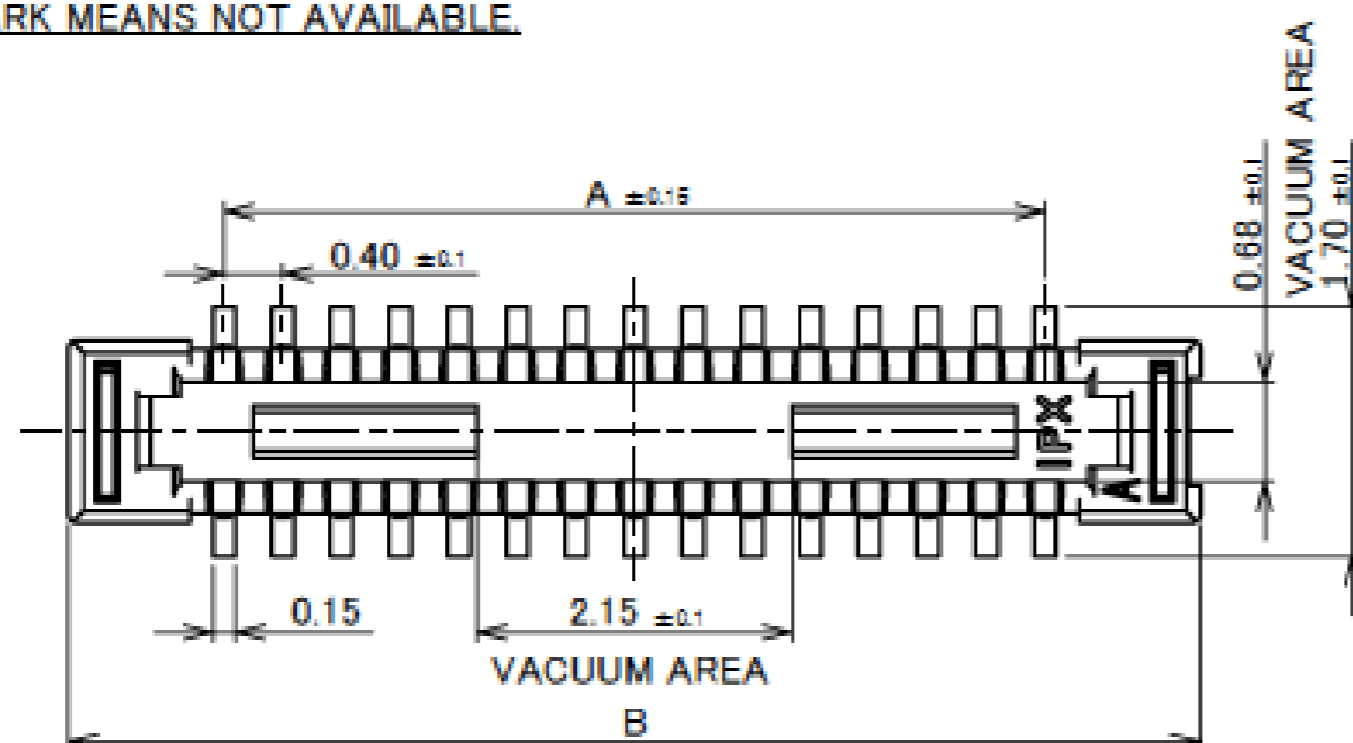


Component Parts Details

Plug Assembly

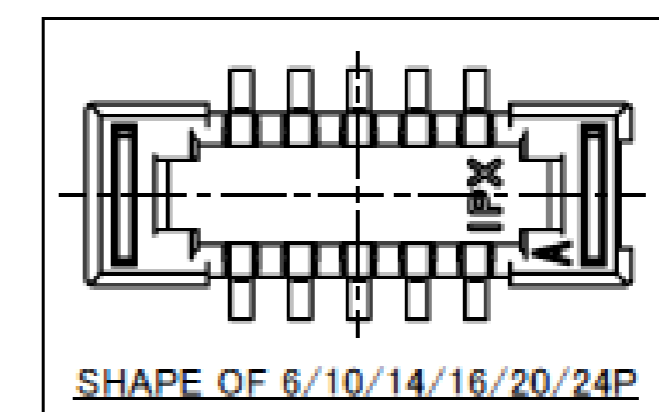
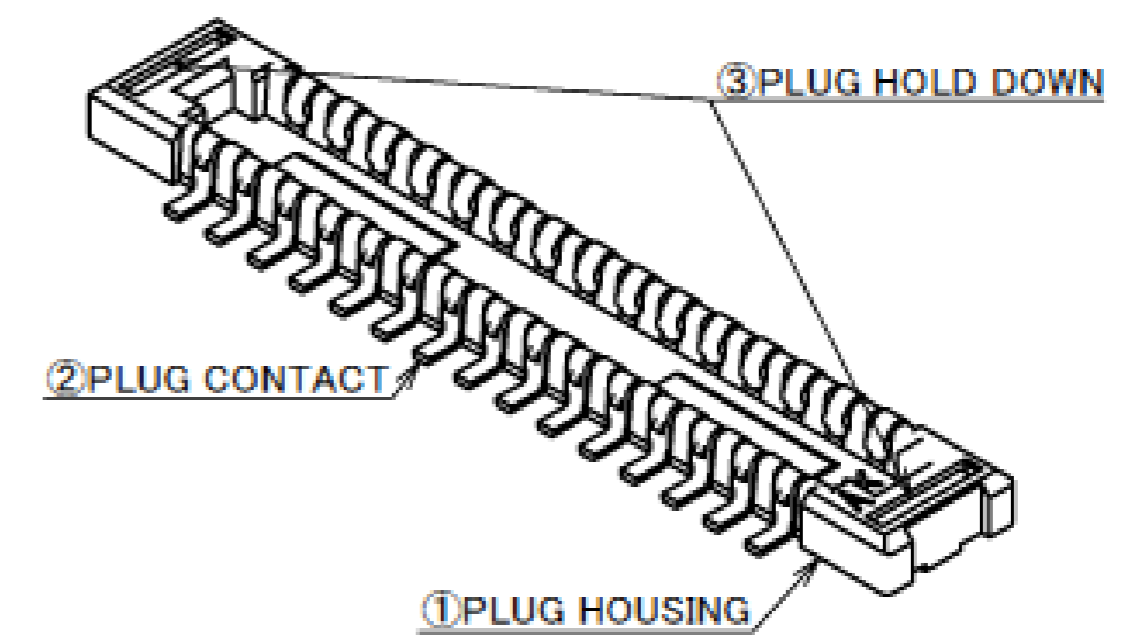
Recommended P/N		20641-0**E				
PART No.	Pos.	A	B	C	D	E
20641-006E	6	0.80	2.92	2.40	2.47	3.38
20641-010E	10	1.60	3.72	3.20	3.27	4.18
◆ 20641-014E	14	2.40	4.52	4.00	4.07	4.98
◆ 20641-016E	16	2.80	4.92	4.40	4.47	5.38
◆ 20641-020E	20	3.60	5.72	5.20	5.27	6.18
20641-024E	24	4.40	6.52	6.00	6.07	6.98
20641-030E	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.

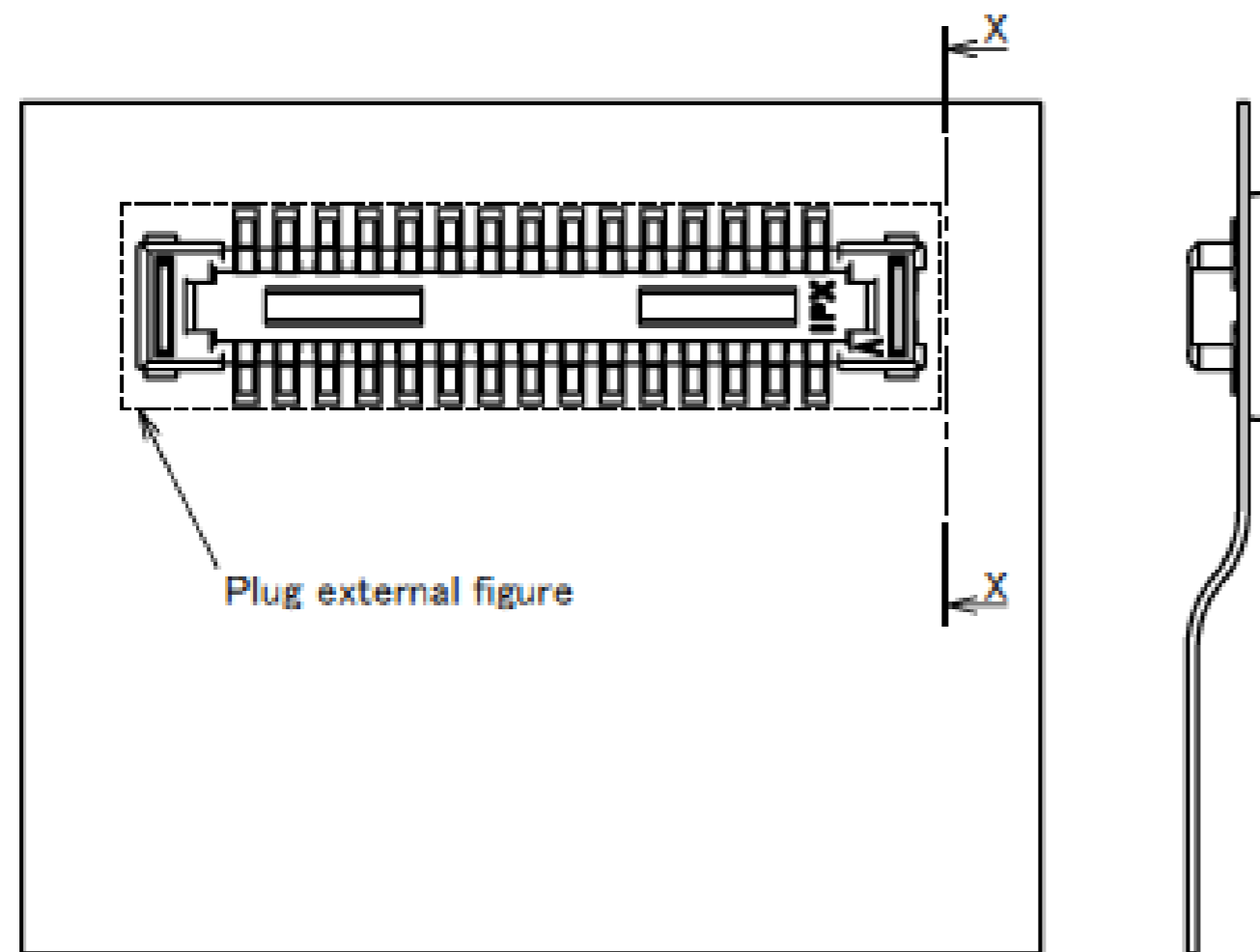
Recommended stiffener size :

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

Recommended FPC and stiffener thickness:

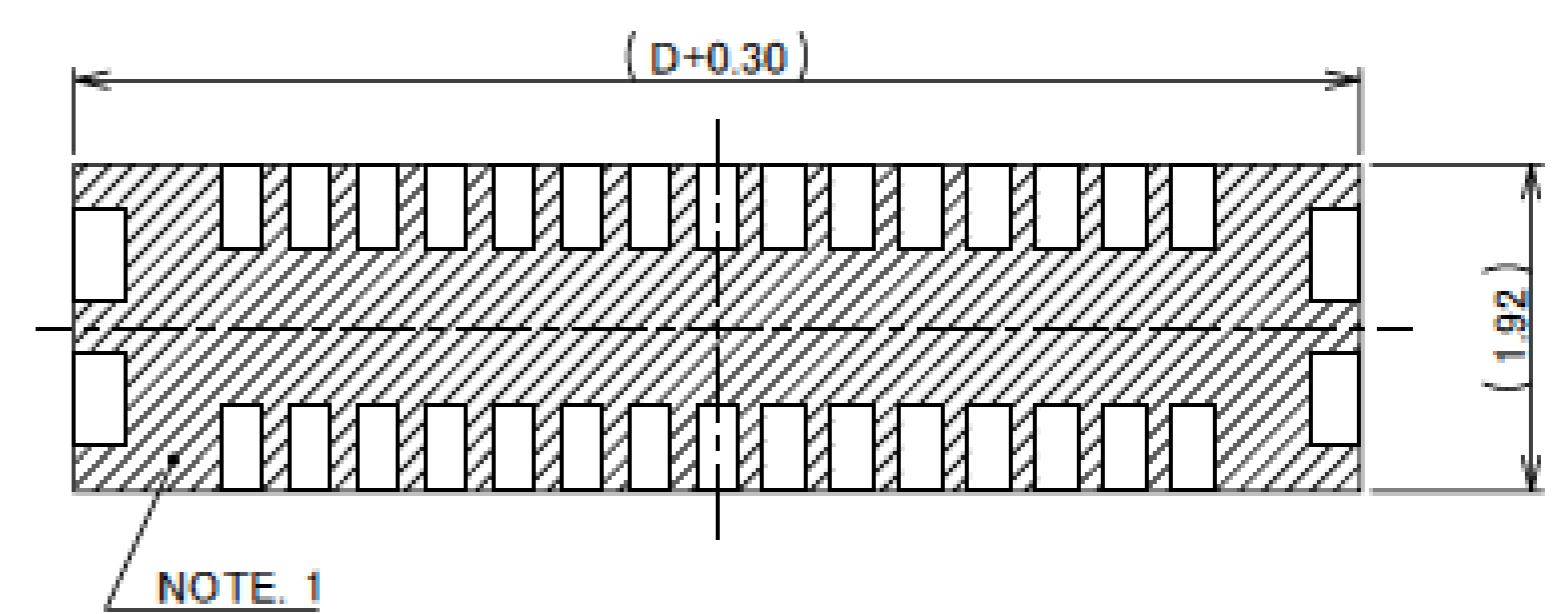
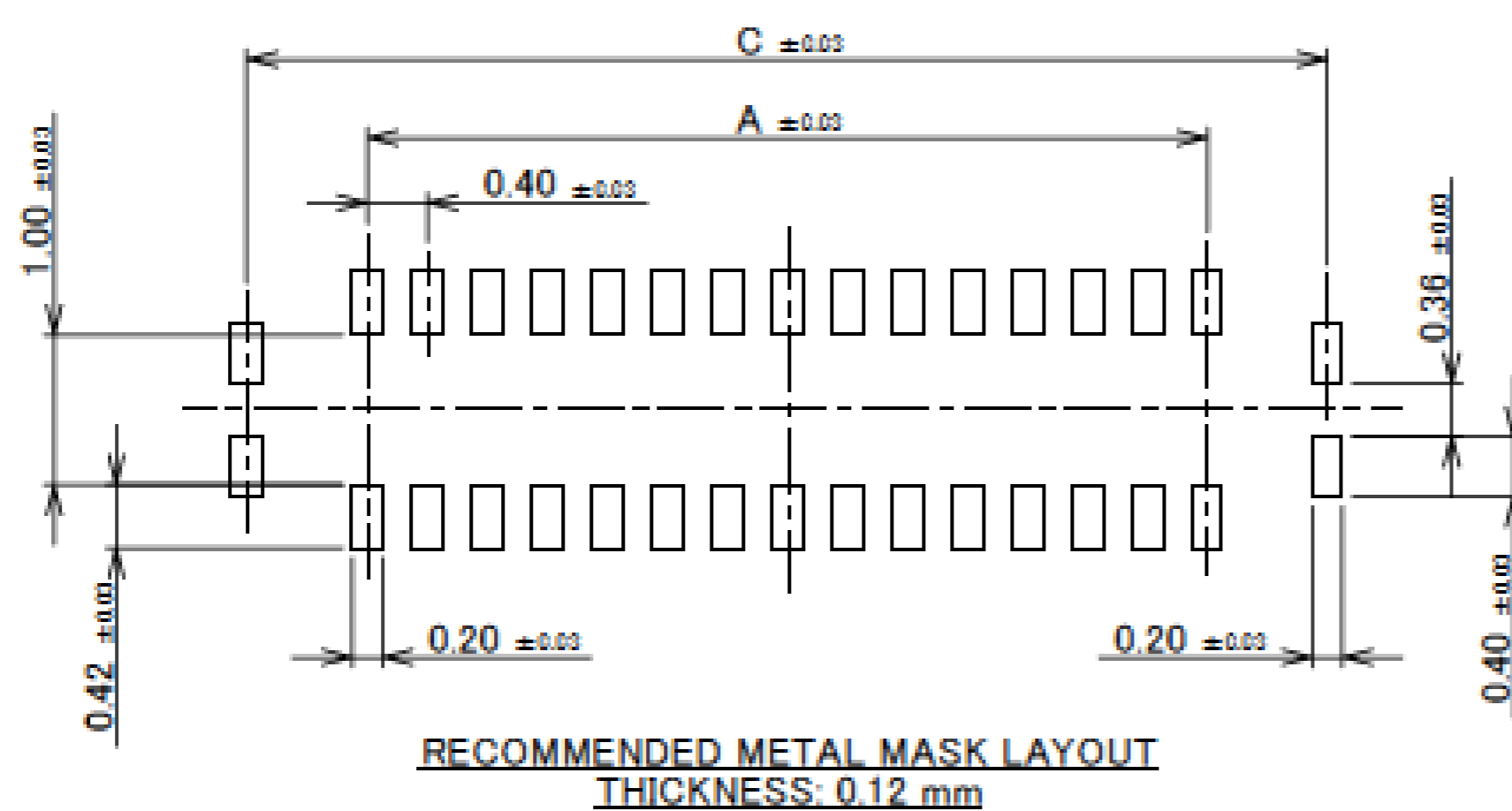
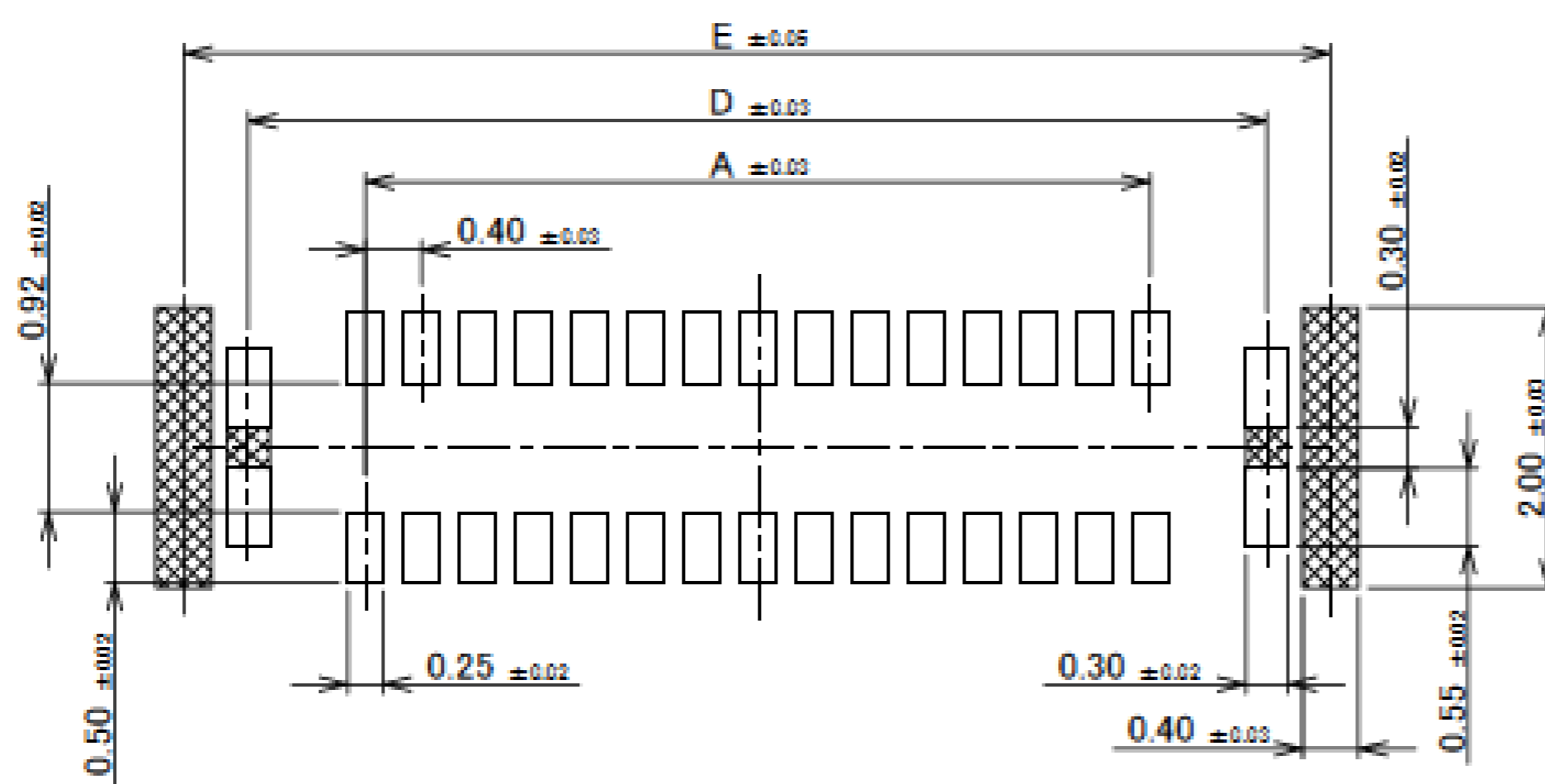
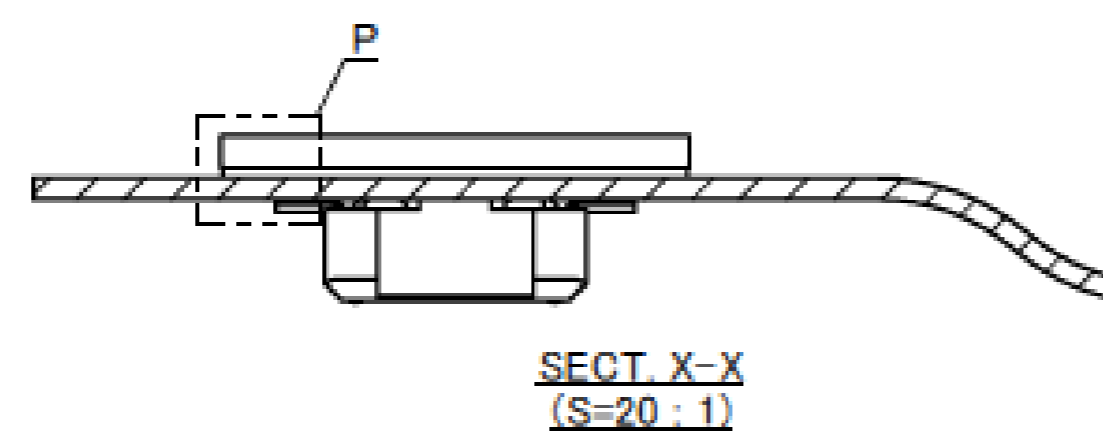
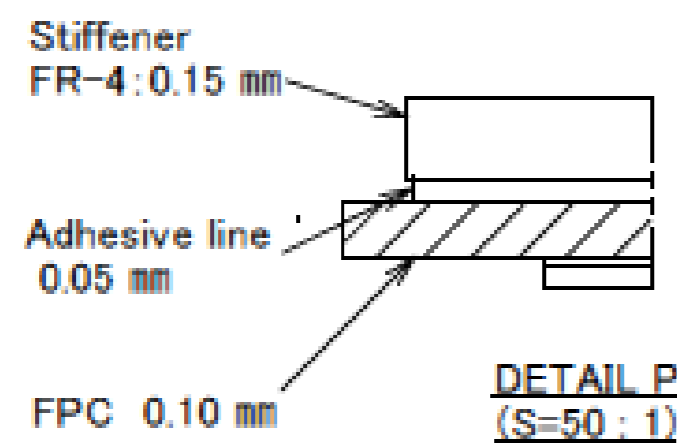
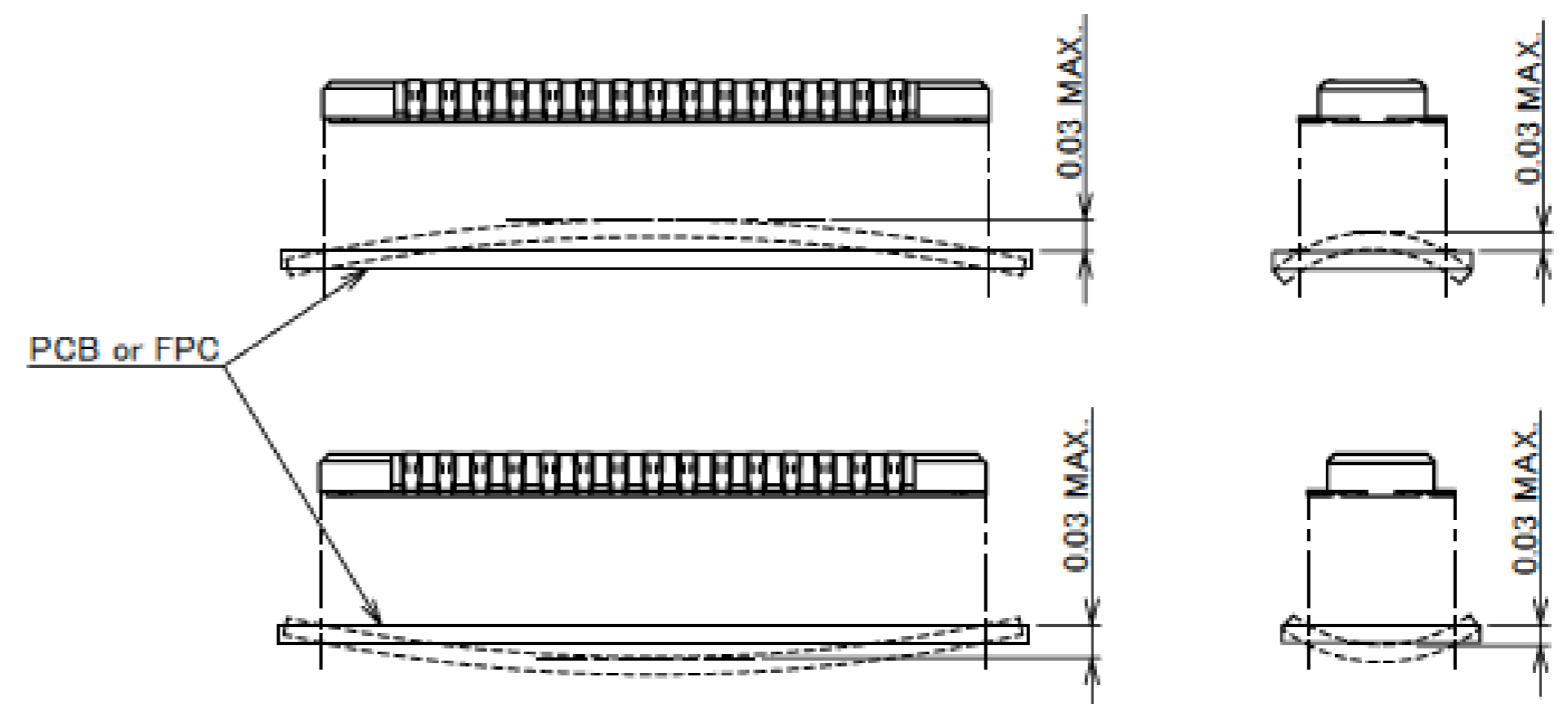
Minimum 0.3 mm

[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.



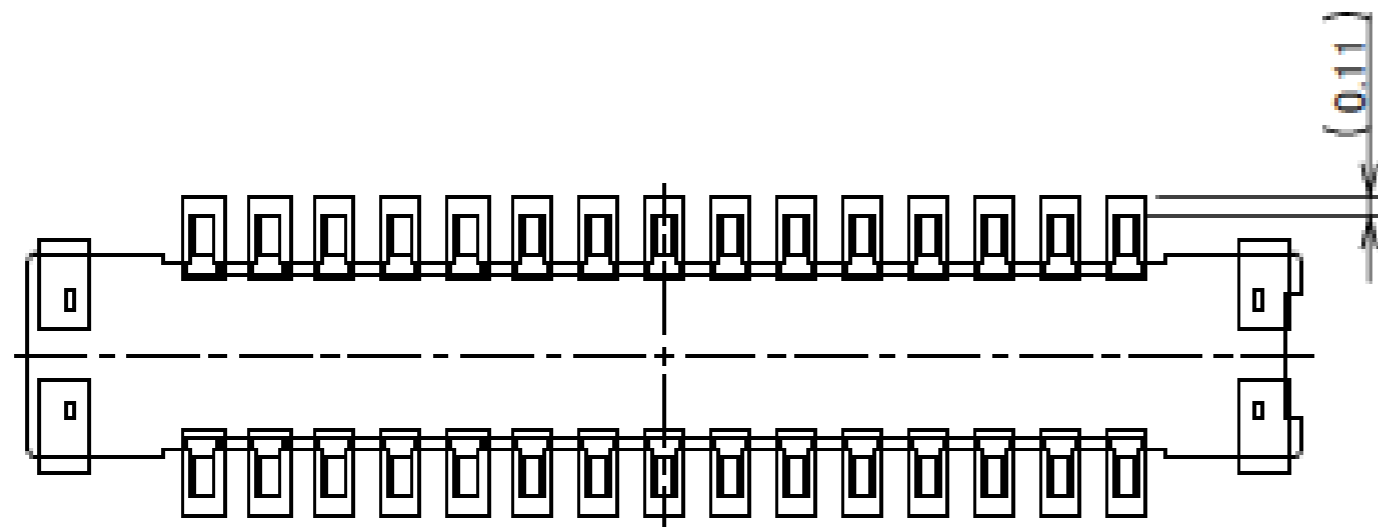
NOTES.

1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

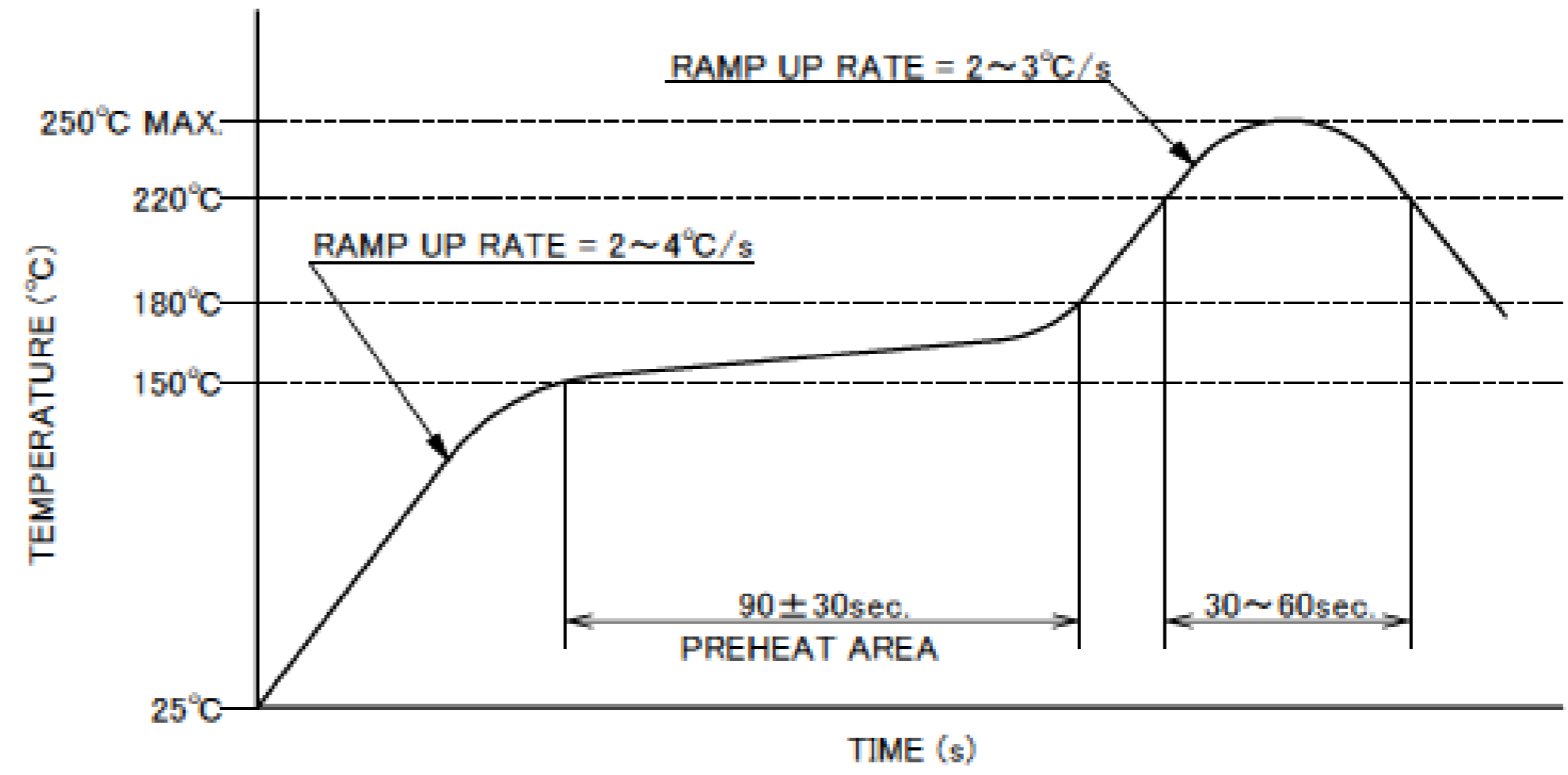
Rev.11

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

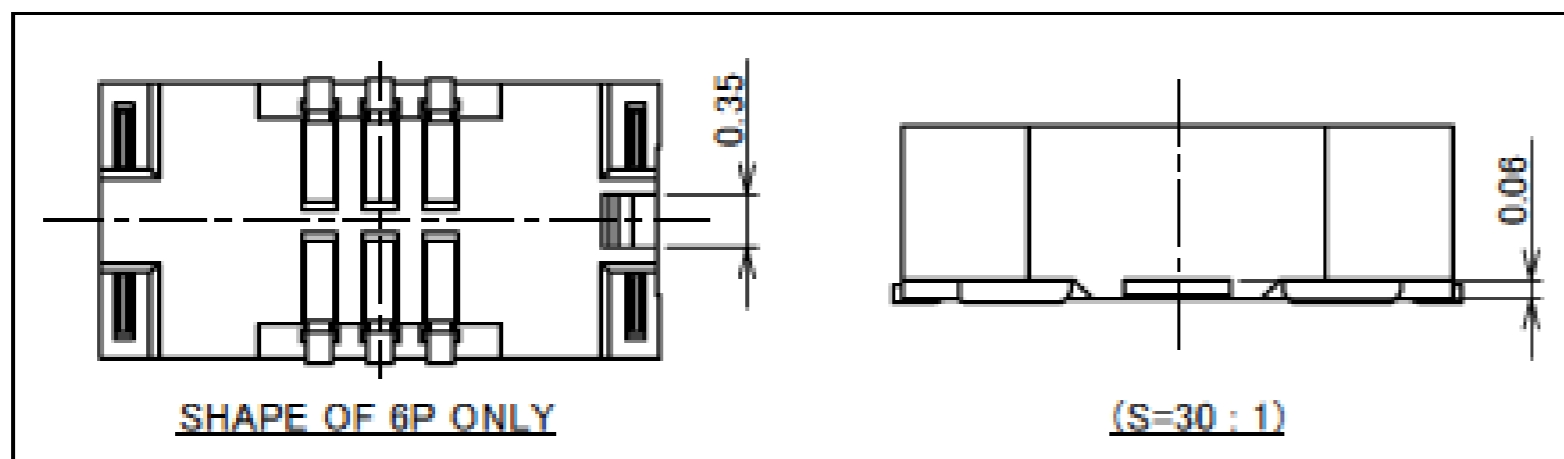
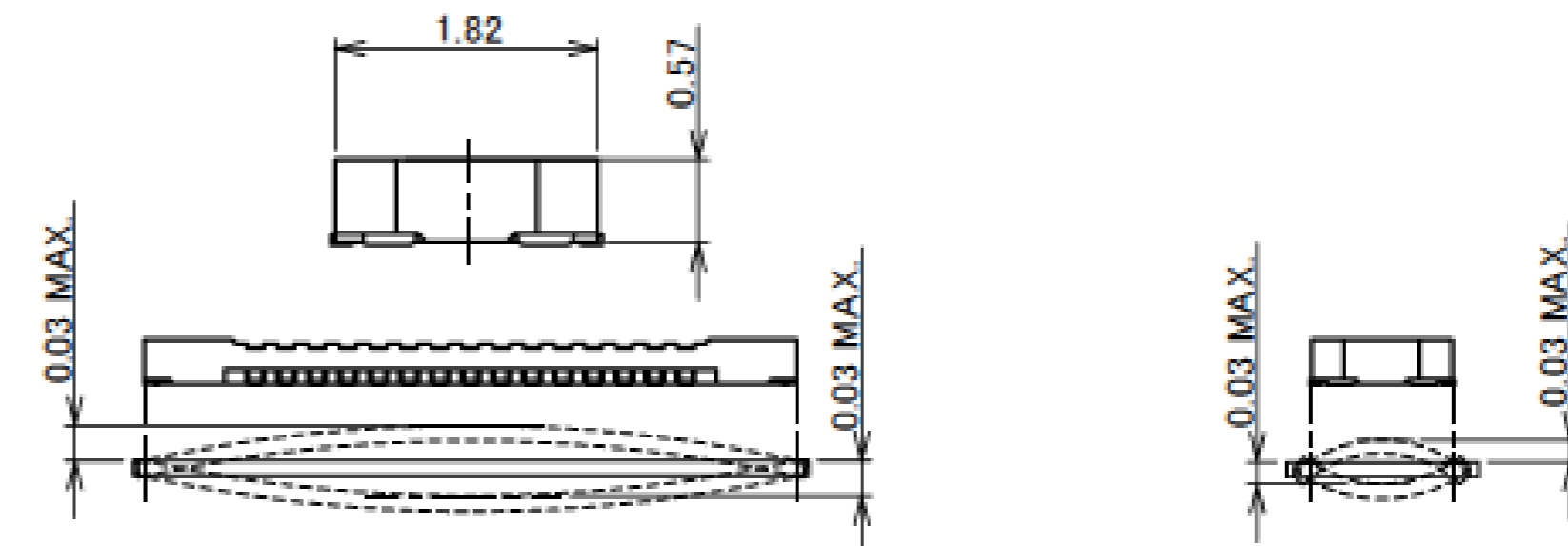
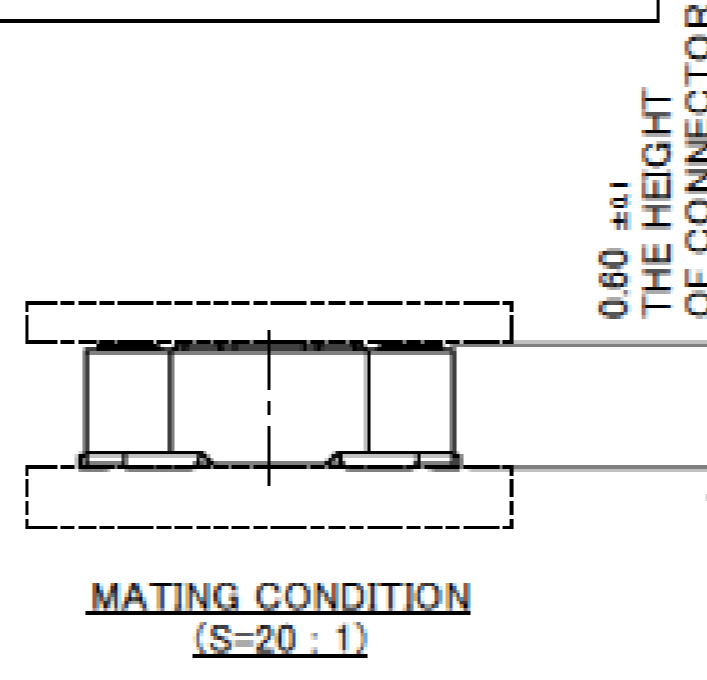
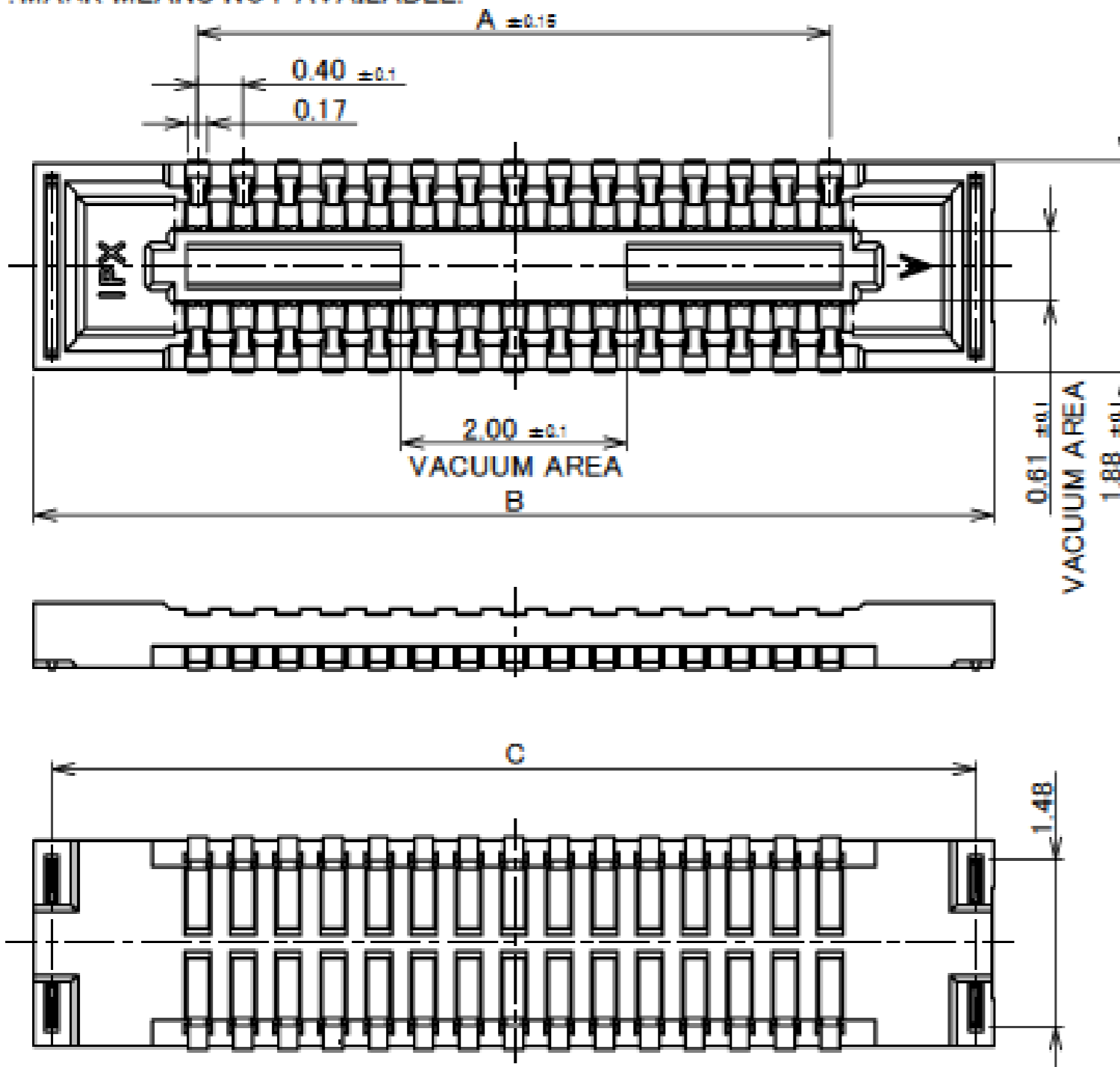
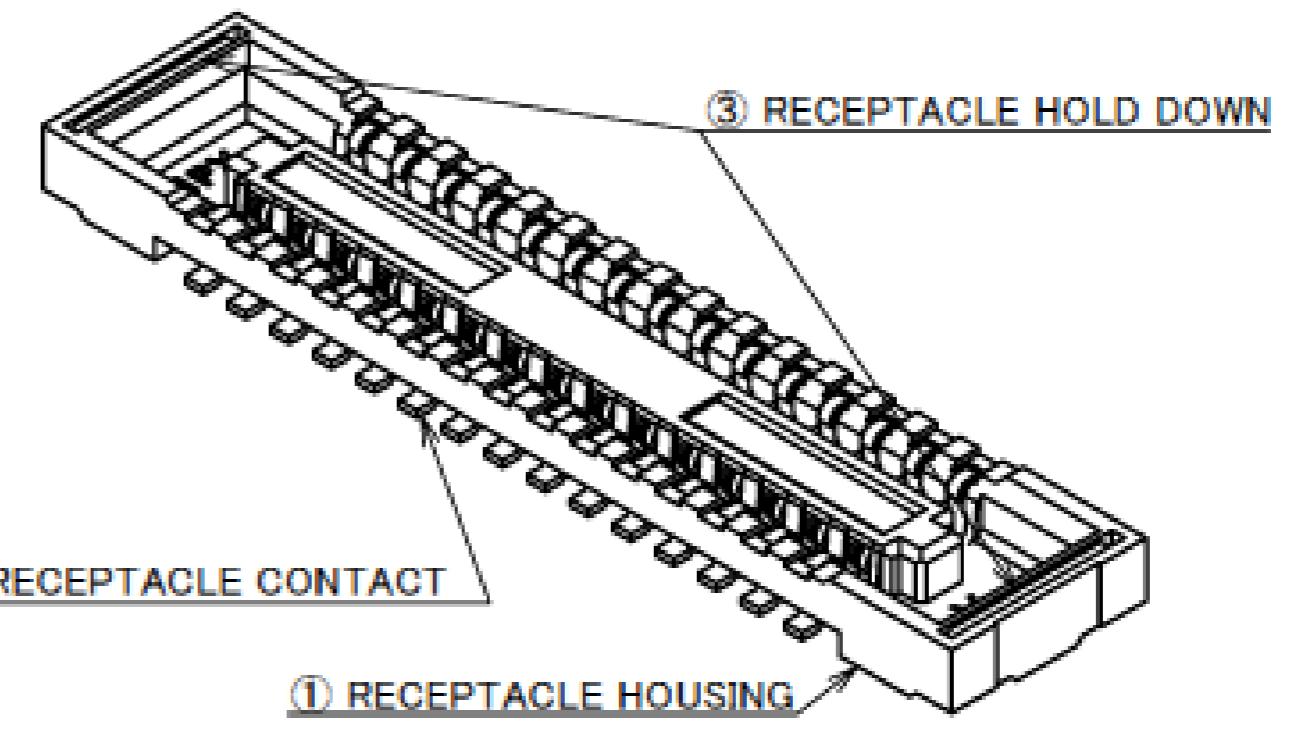
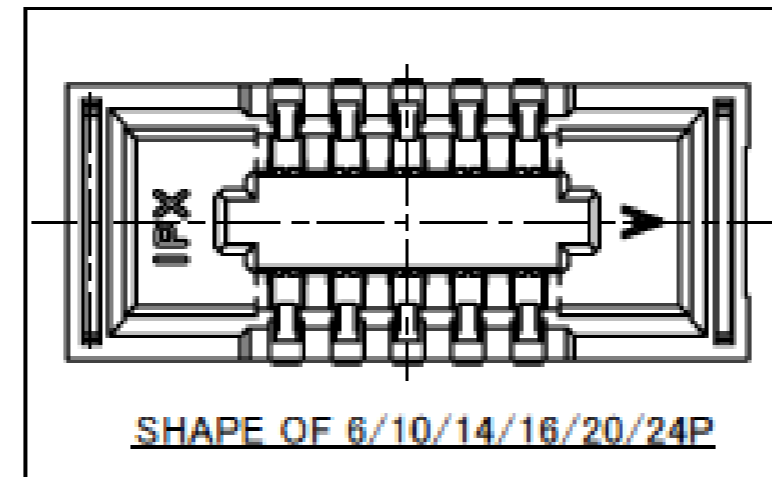
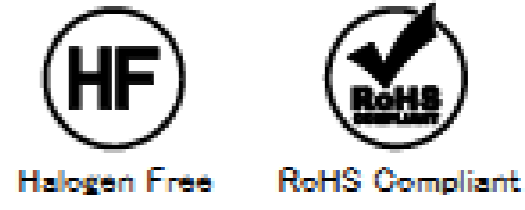
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20642-0**1E
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 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

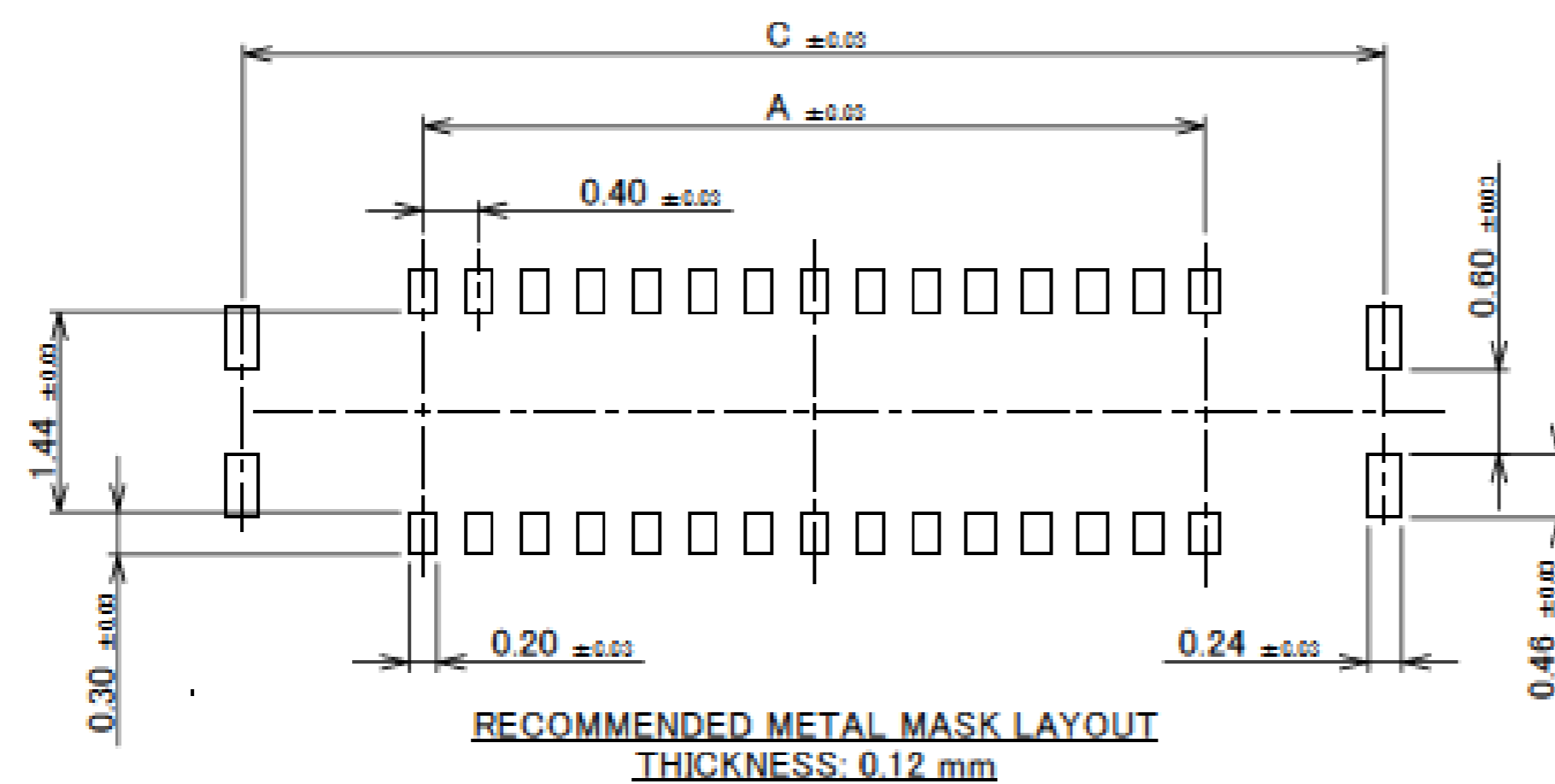
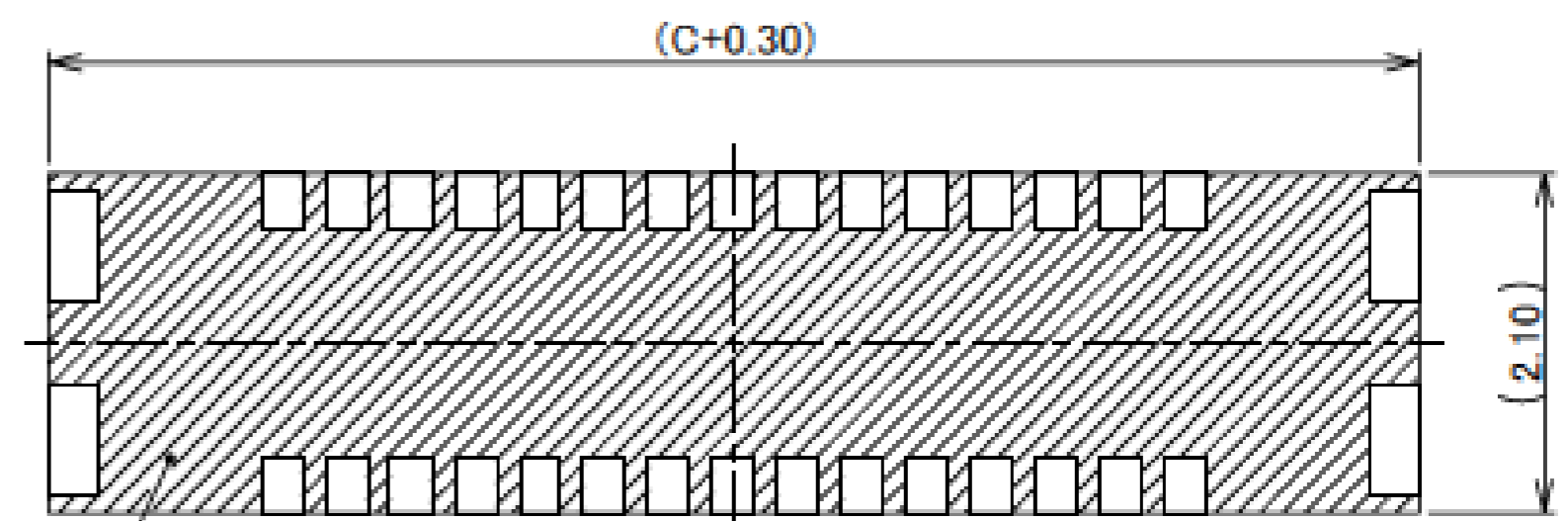
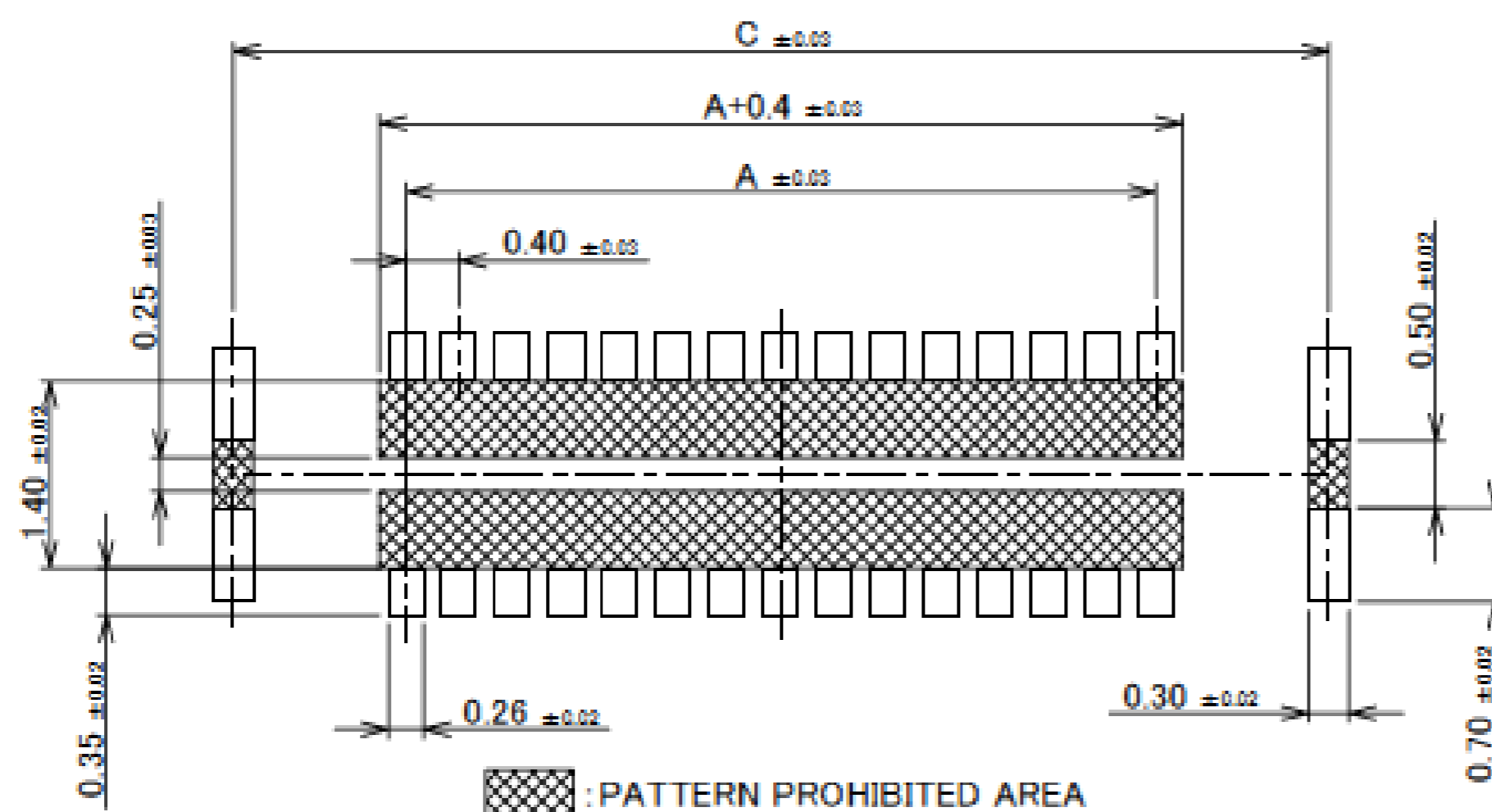
Recommended P/N		20642-0**E			
PART No.	Pos.	A	B	C	
20642-006E	6	0.80	3.70	3.38	
20642-010E	10	1.60	4.50	4.18	
◆ 20642-014E	14	2.40	5.30	4.98	
◆ 20642-016E	16	2.80	5.70	5.38	
◆ 20642-020E	20	3.60	6.50	6.18	
20642-024E	24	4.40	7.30	6.98	
20642-030E	30	5.60	8.50	8.18	
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20642-040E	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
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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

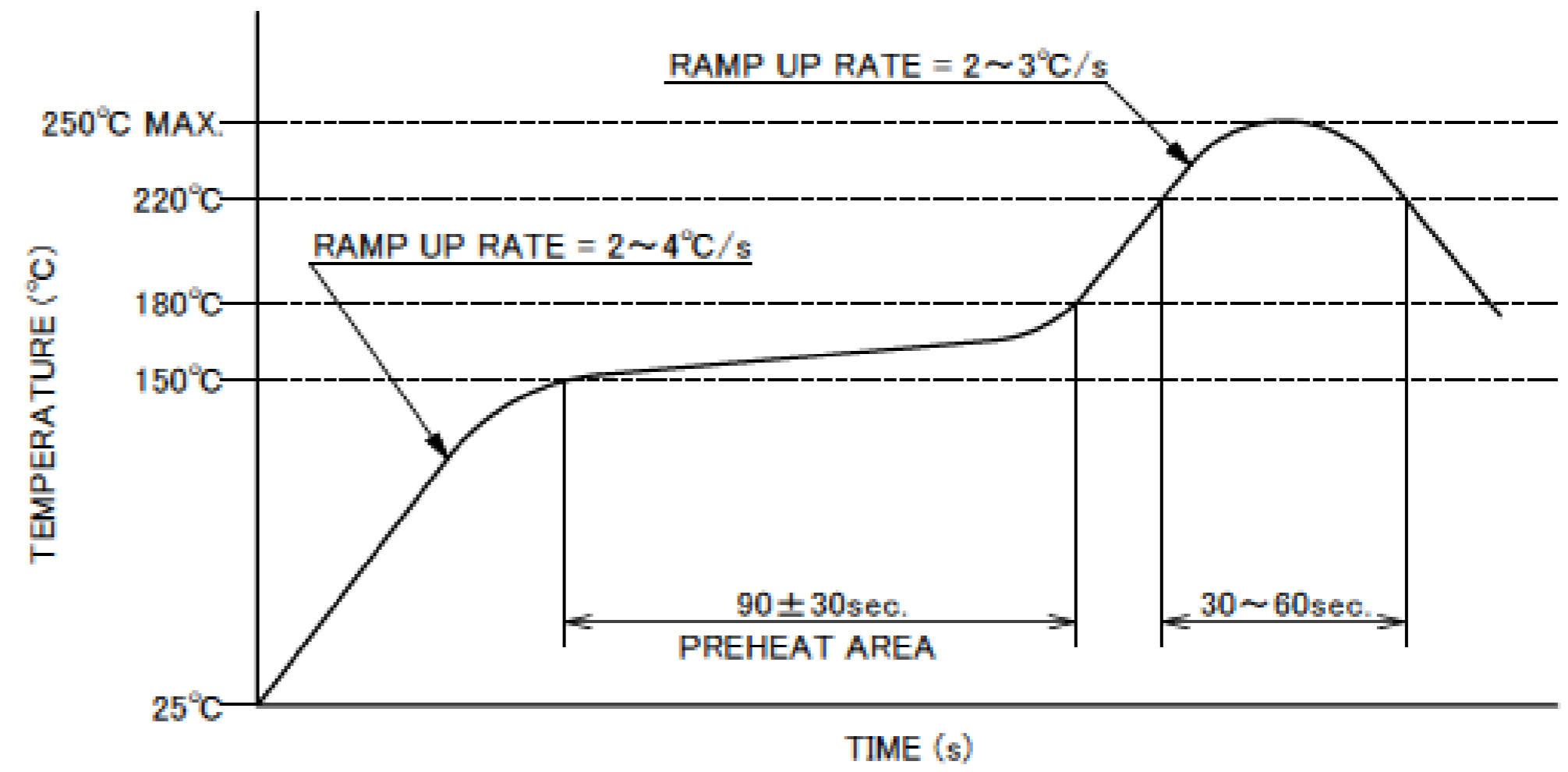
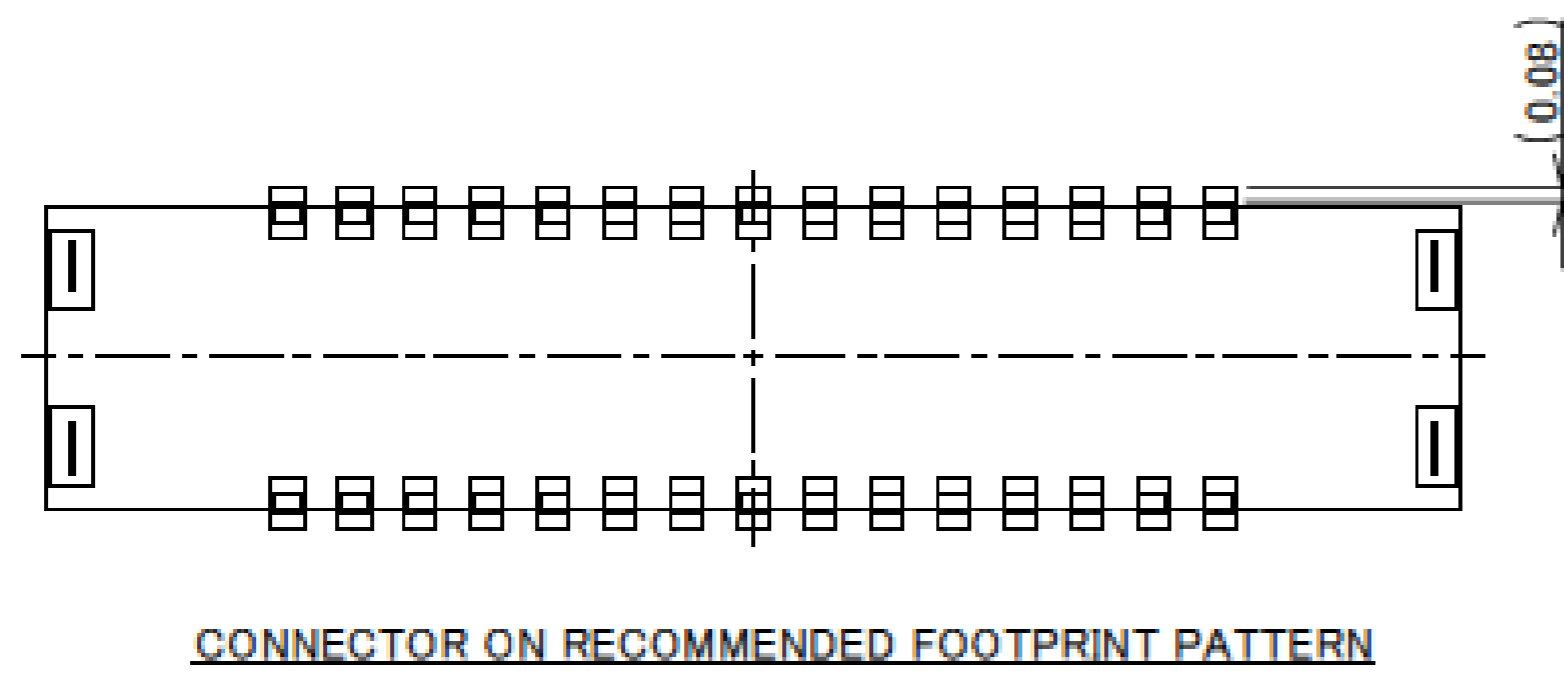
Rev.10



NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.10

Receptacle Assembly



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 : \triangleleft120mohm 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

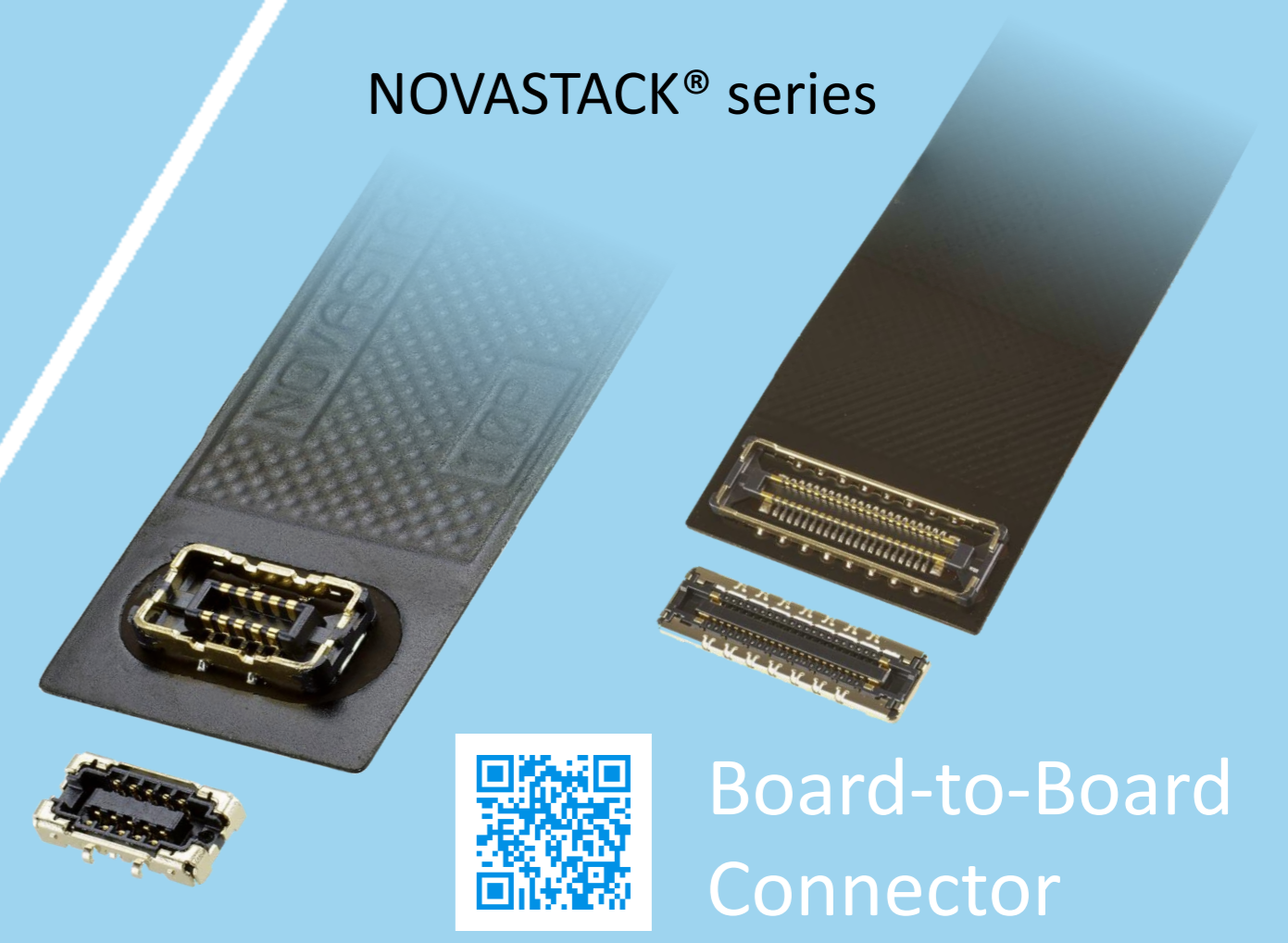
LIGHTPASS® series



NOVASTACK® series



Board-to-Board Connector



Power Connector/
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



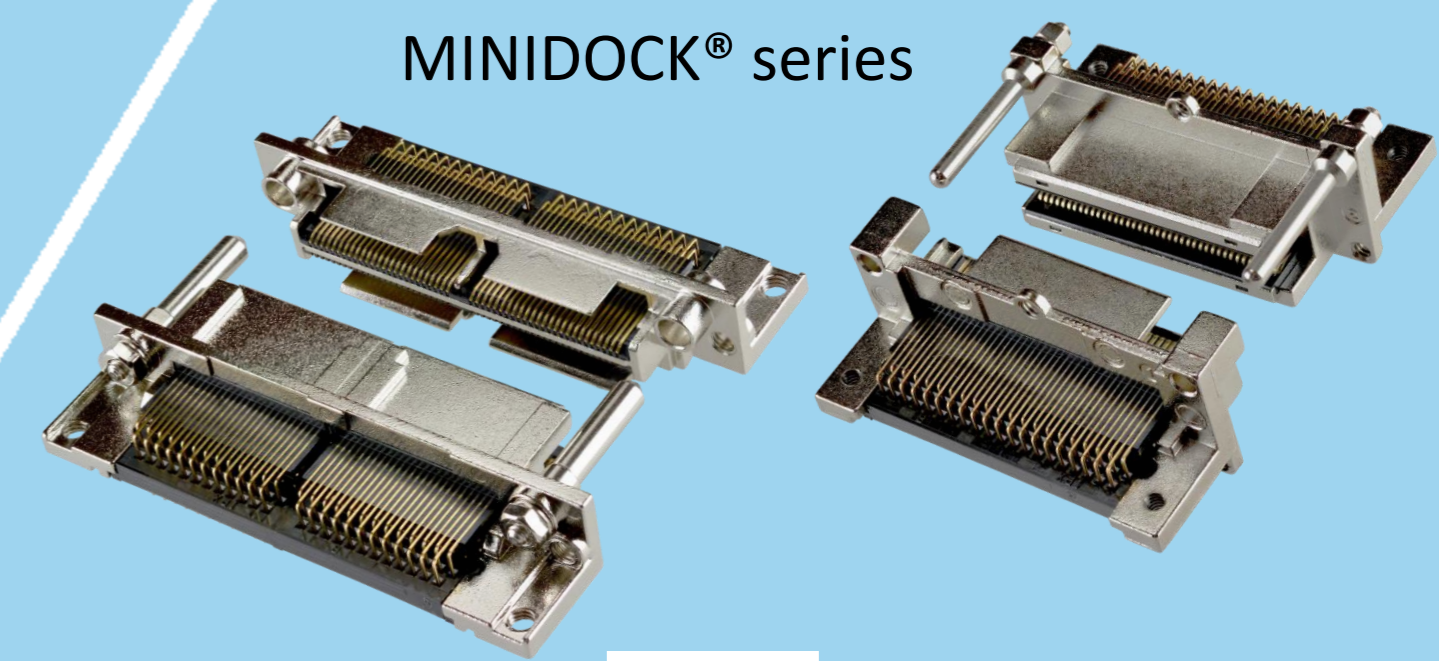
FPC FFC Connector



Inquiry



MINIDOCK® series



I/O Connector

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