

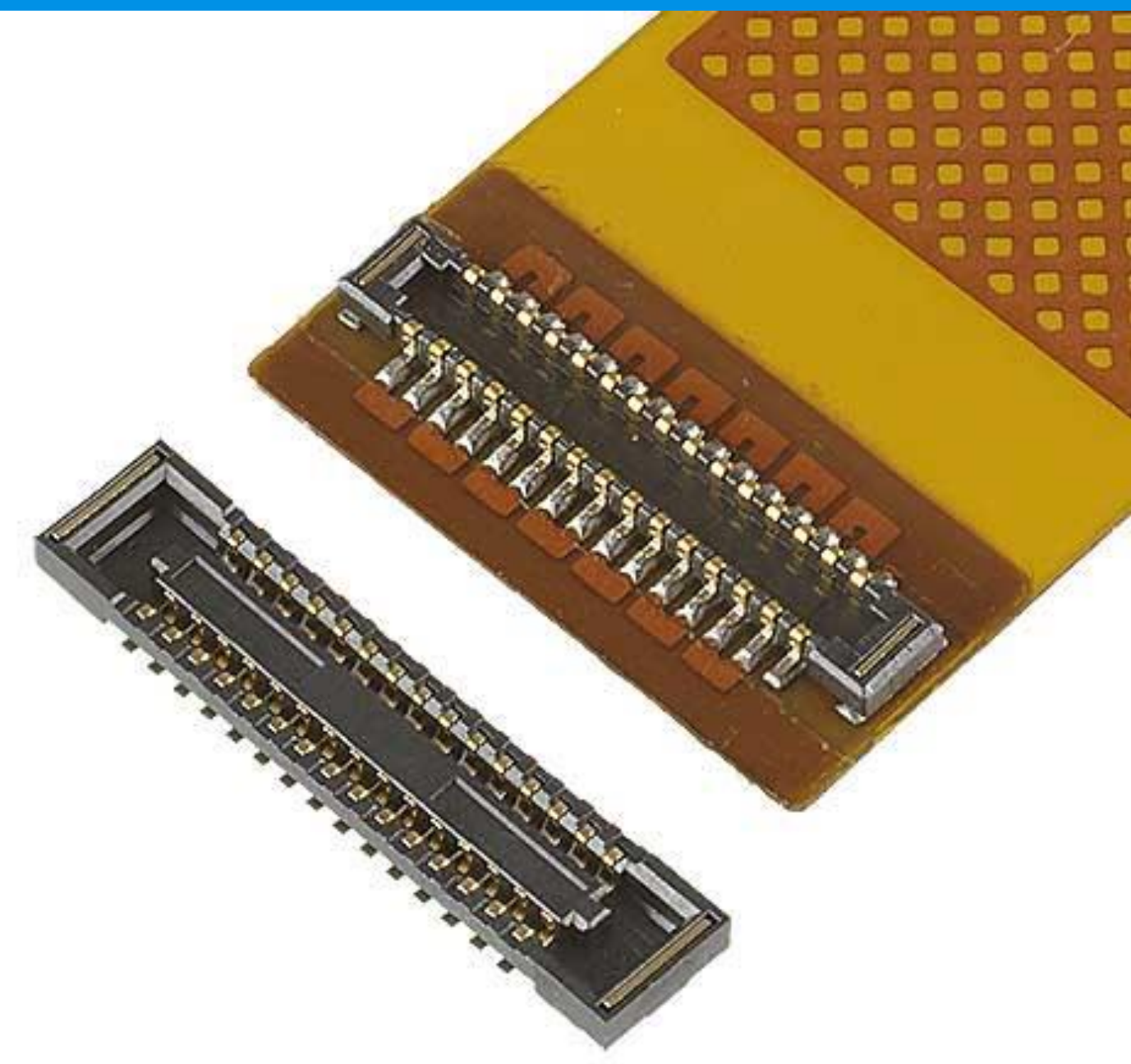
NOVASTACK® 4

소형 · 저배형 커넥터, 0.4 mm Pitch, 결합 높이 0.6 mm 높이, 폭 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

*기재가 되어있지 않은 핀 수의 대응 여부에 대해서는 문의해 부탁드립니다.

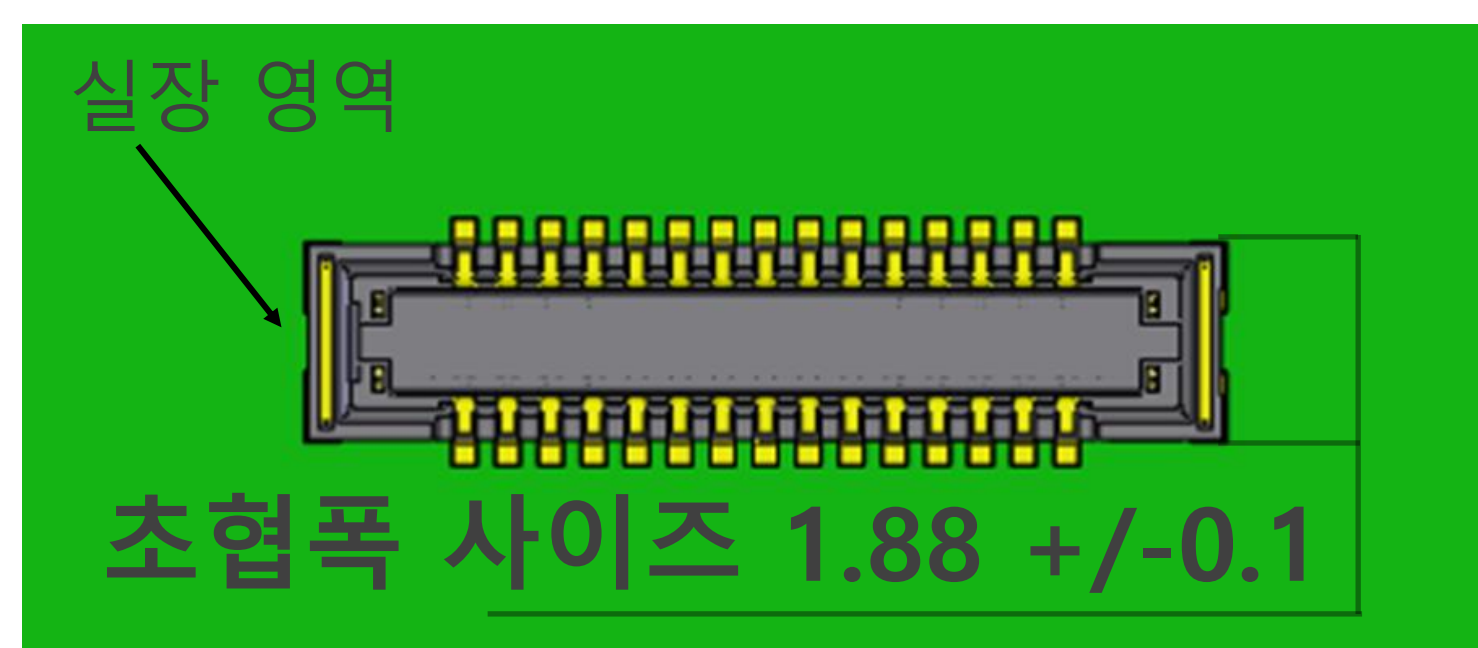


▶ 기판 점유 면적을 줄이는 공간 절약적 설계 (폭 1.88 mm)

빨간색: 개발 중

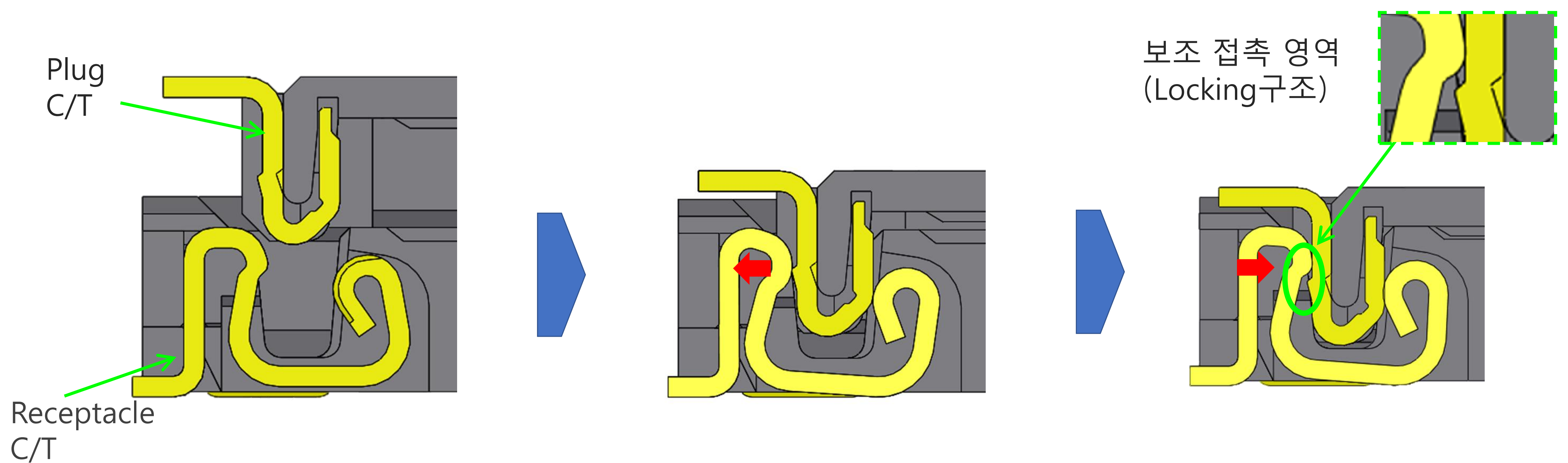
	6	10	16	20	24	26	30	34	40	80
경쟁사	-	9.5	11.78	13.3	14.82	15.58	17.1	18.62	20.9	36.1
I-PEX	6.96	8.46	10.72	12.22	13.72	14.48	15.98	17.48	19.74	34.78
감소율	-	10.9%	9.0%	8.1%	7.4%	7.1%	6.5%	6.1%	5.6%	3.7%

(단위: mm²)

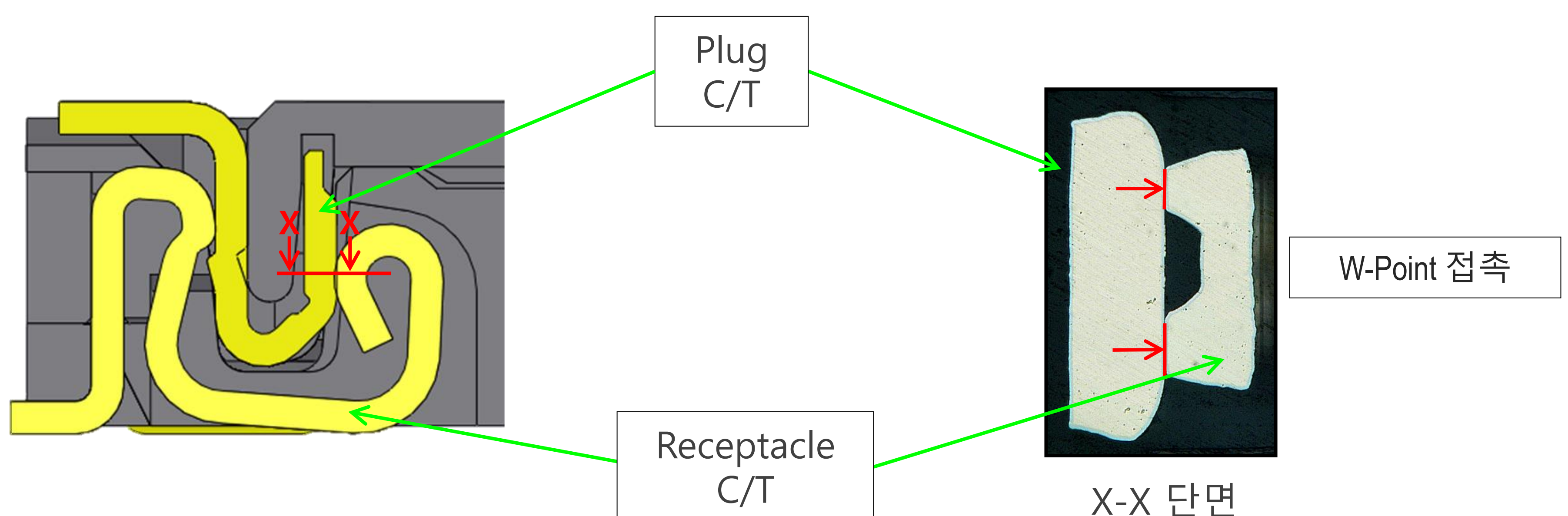


실장 영역 감소 4 ~ 11%

▶ 안정적인 결합 유지력과 체결감



▶ 독자적인 W-point 접촉 구조에 따른 높은 접촉 신뢰성

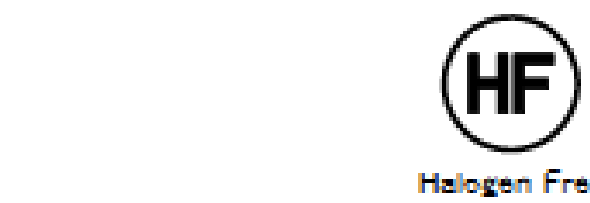
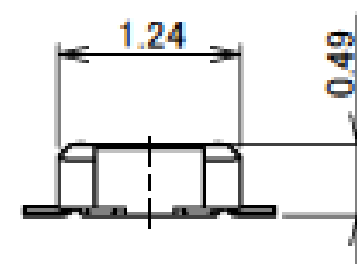
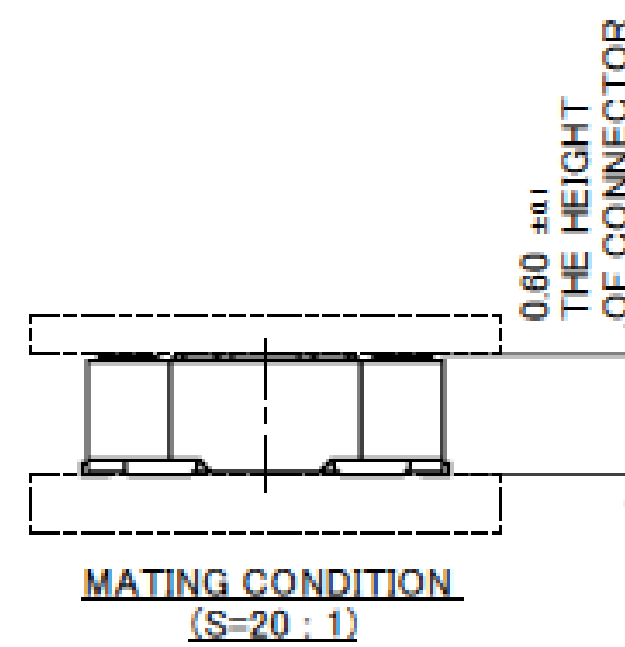
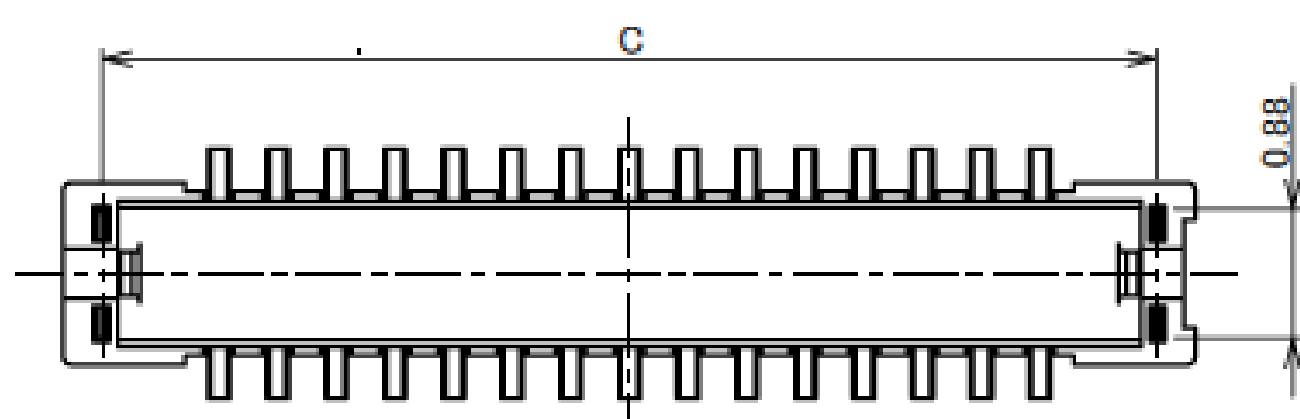
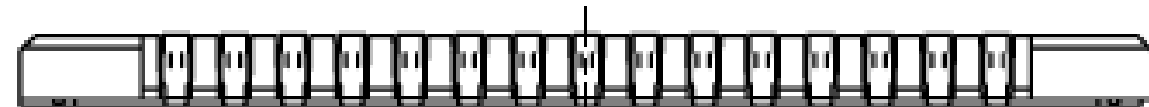
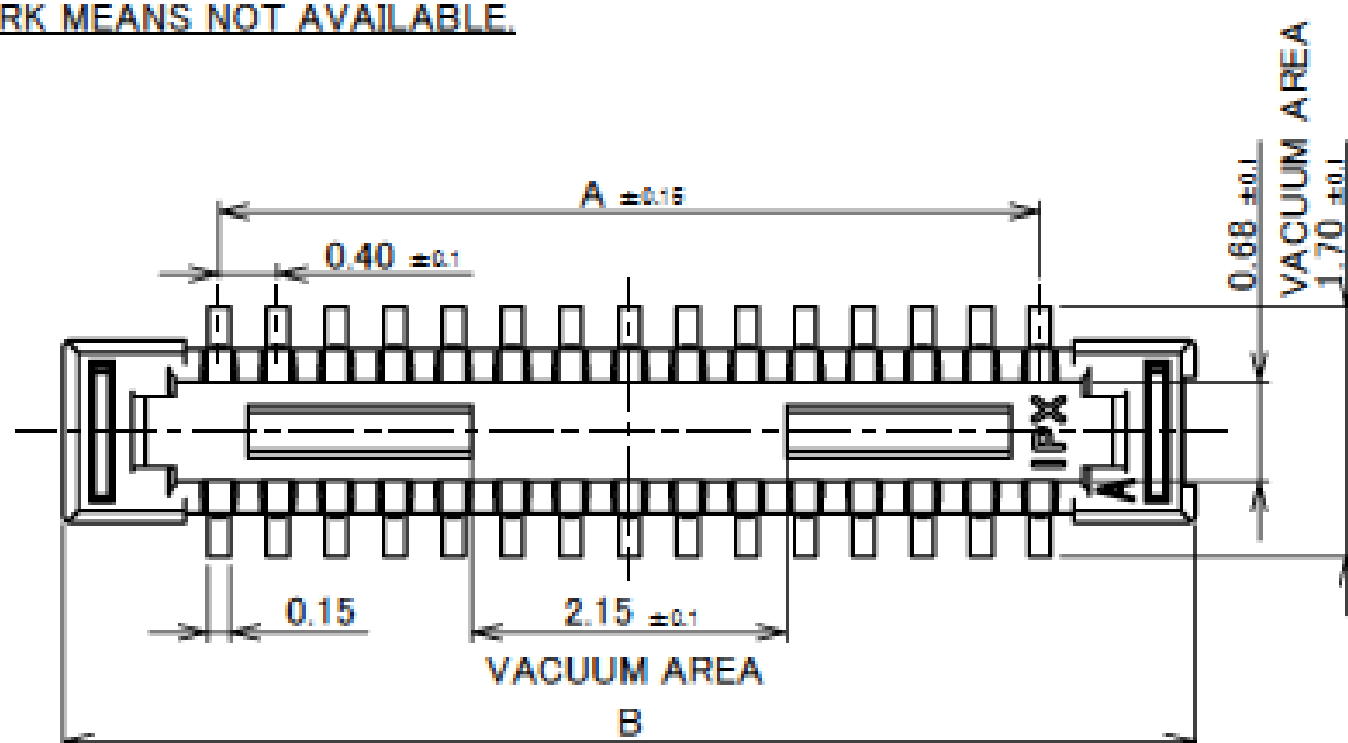


Component Parts Details

Plug Assembly

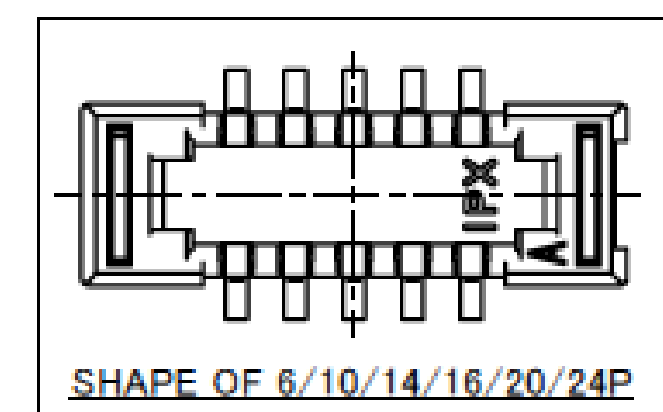
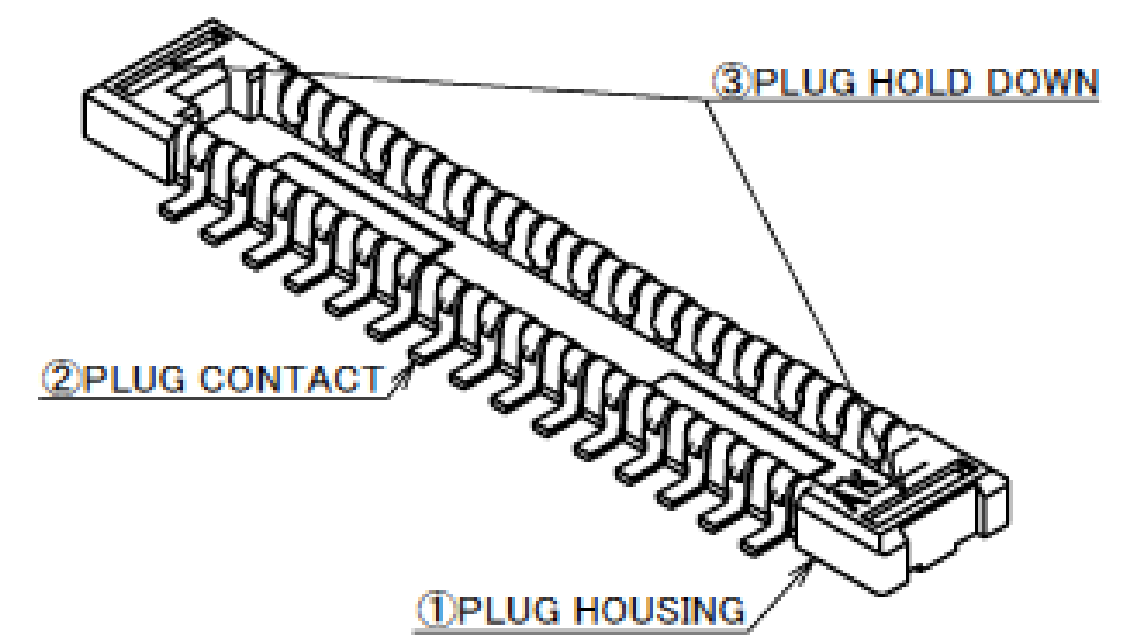
Recommended P/N		20641-0**E				
PART No.	Pos.	A	B	C	D	E
20641-006E	6	0.80	2.92	2.40	2.47	3.38
20641-010E	10	1.60	3.72	3.20	3.27	4.18
◆ 20641-014E	14	2.40	4.52	4.00	4.07	4.98
◆ 20641-016E	16	2.80	4.92	4.40	4.47	5.38
◆ 20641-020E	20	3.60	5.72	5.20	5.27	6.18
20641-024E	24	4.40	6.52	6.00	6.07	6.98
20641-030E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

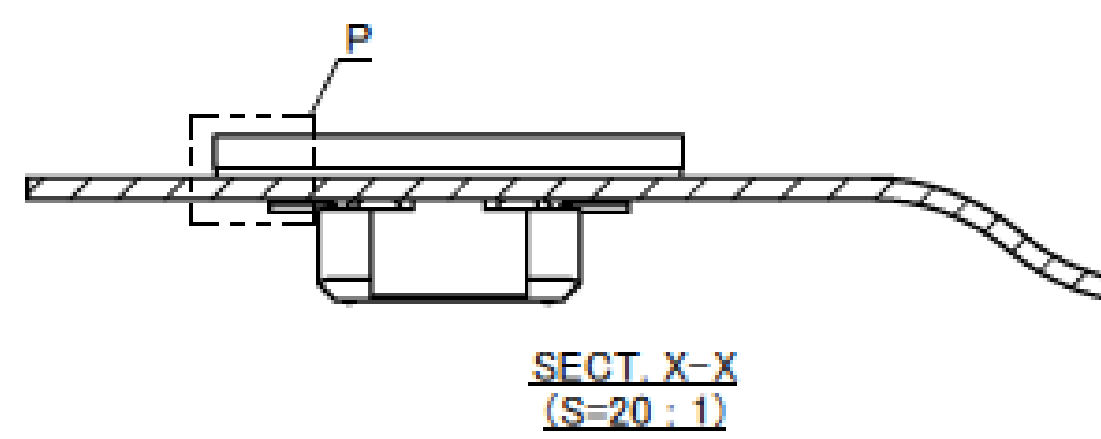
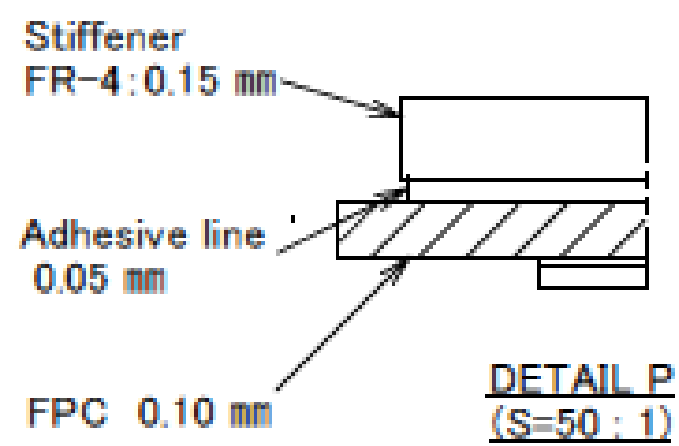
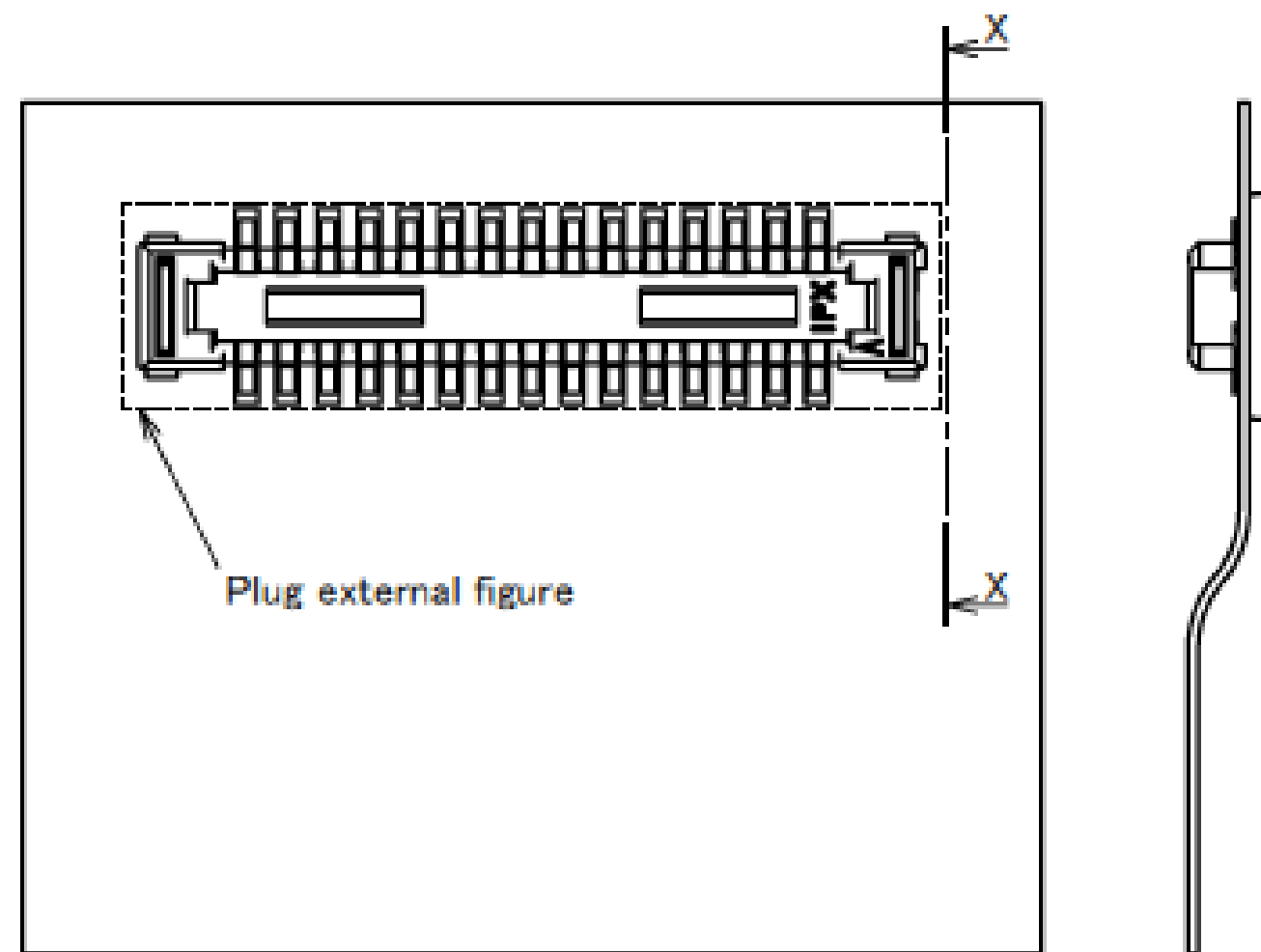
Recommended stiffener size :

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

Recommended FPC and stiffener thickness:

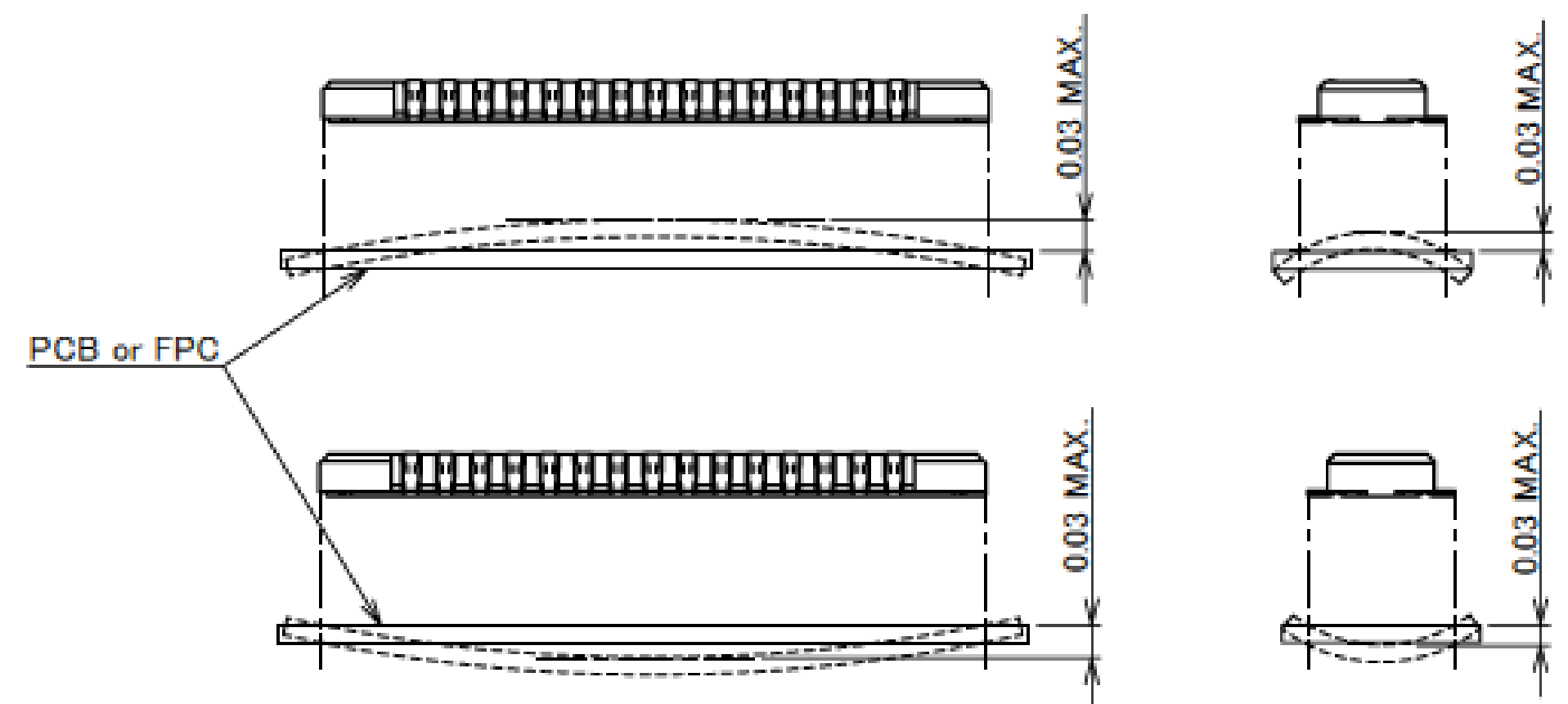
Minimum 0.3 mm

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

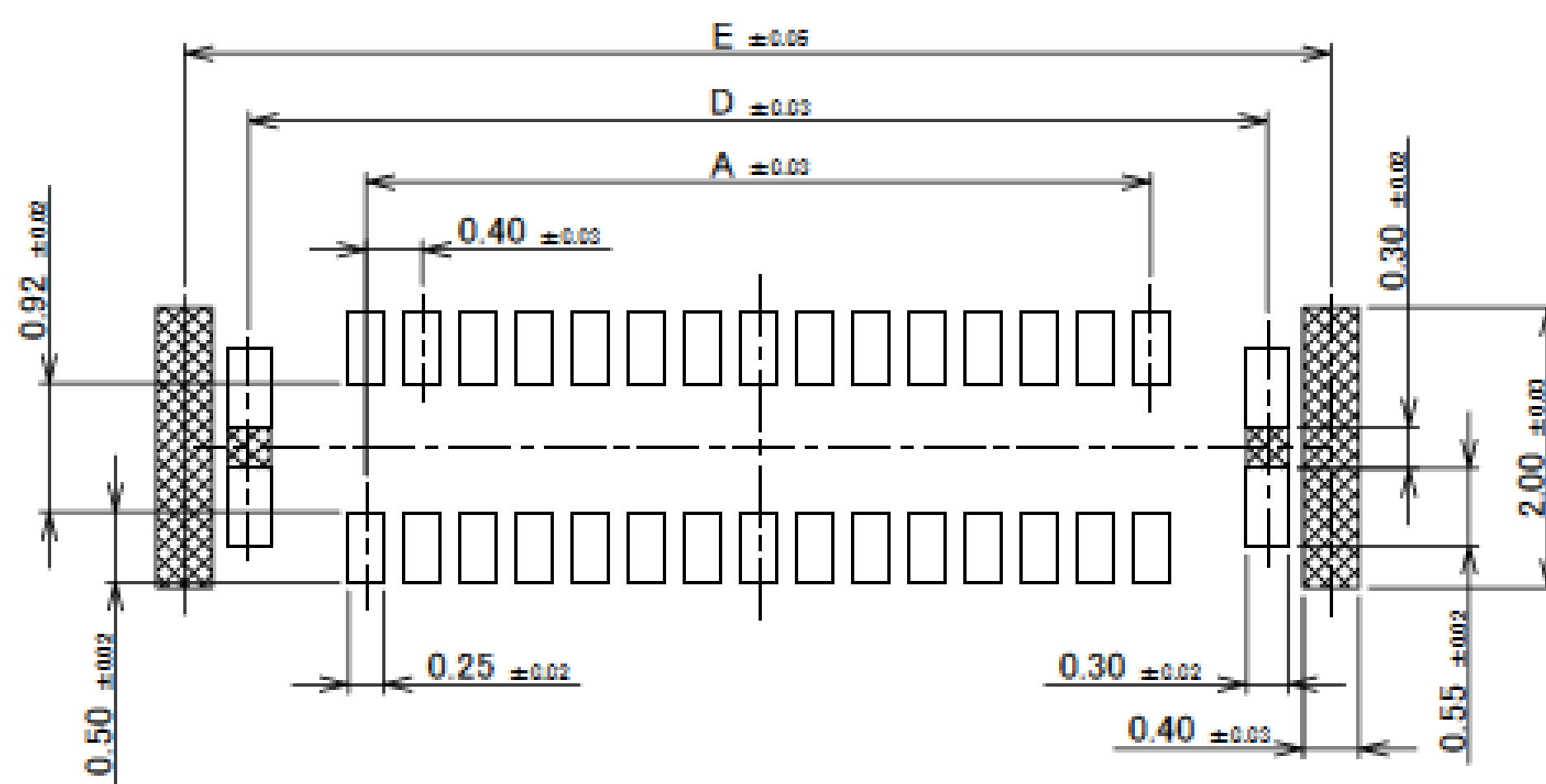


2. Warp of PCB or FPC

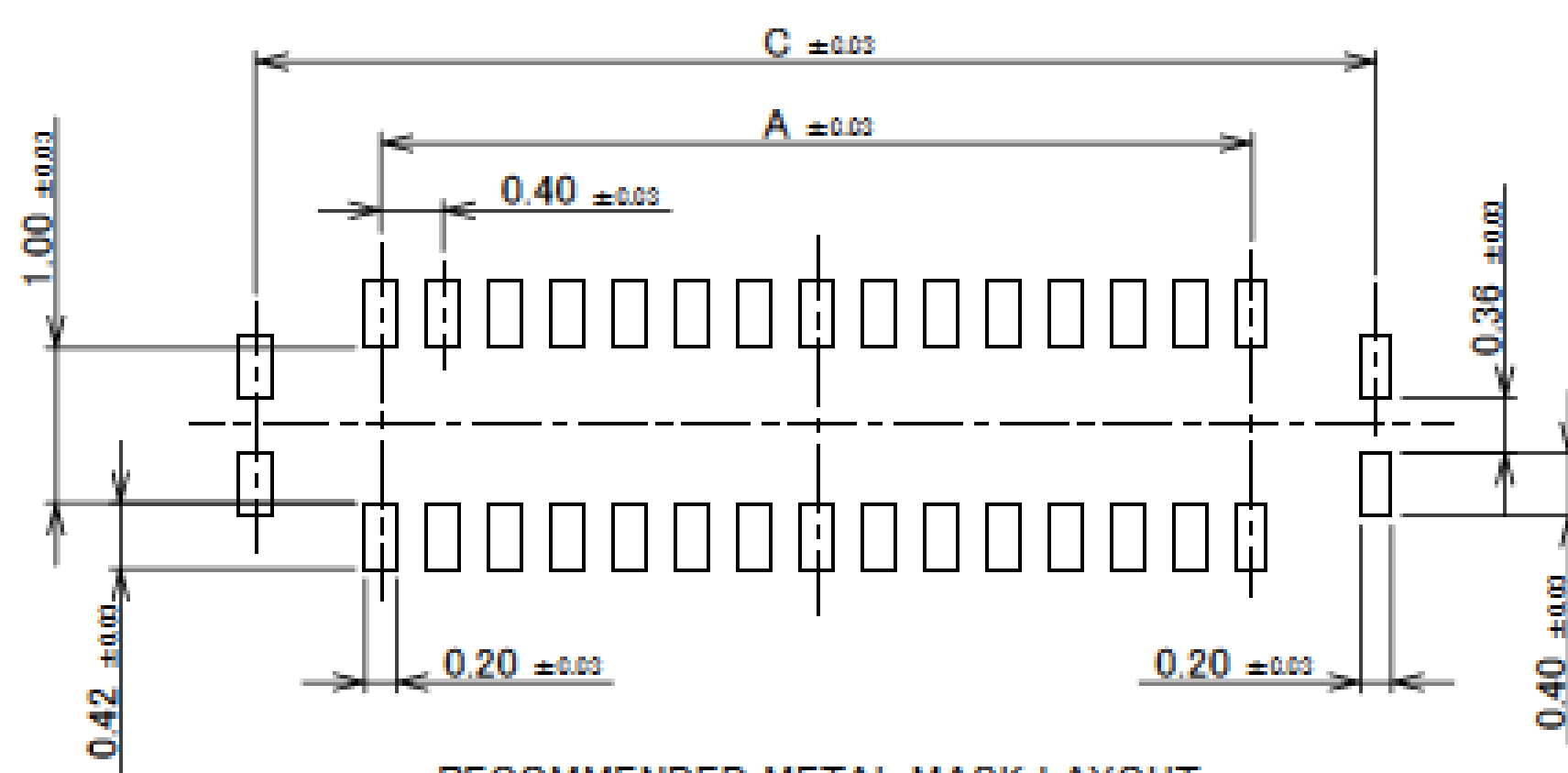
PCB /FPC warping is maximum 0.03 mm, with both ends of the plug.



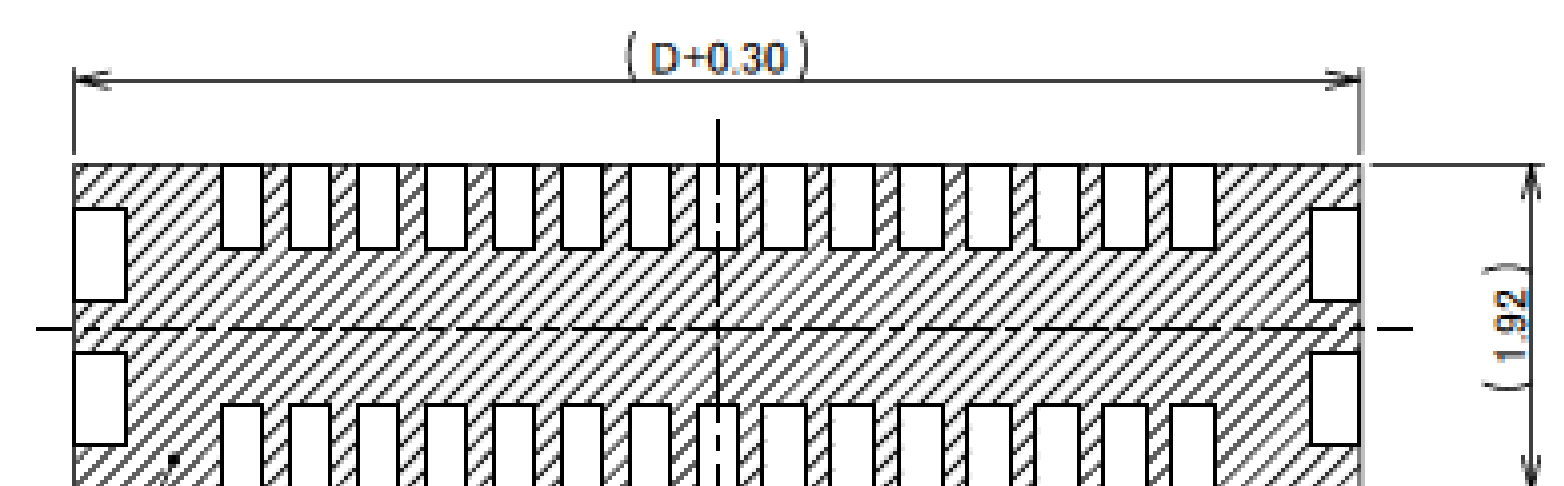
Rev.11



RECOMMENDED PATTERN LAYOUT



RECOMMENDED METAL MASK LAYOUT
THICKNESS: 0.12 mm



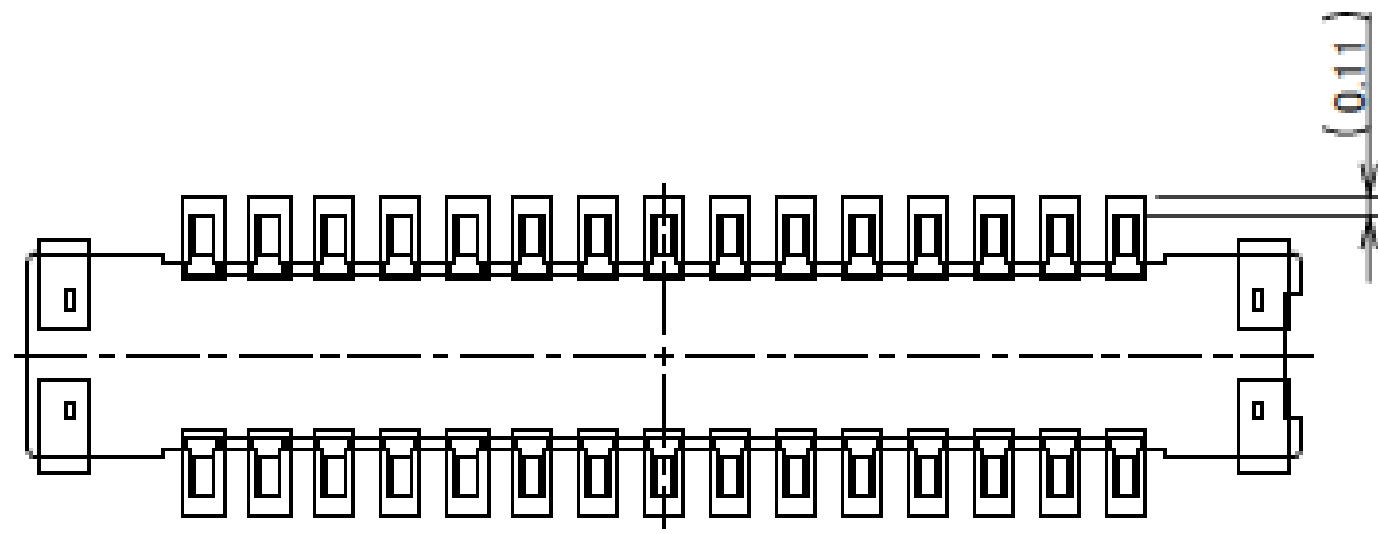
NOTE 1

NOTES.

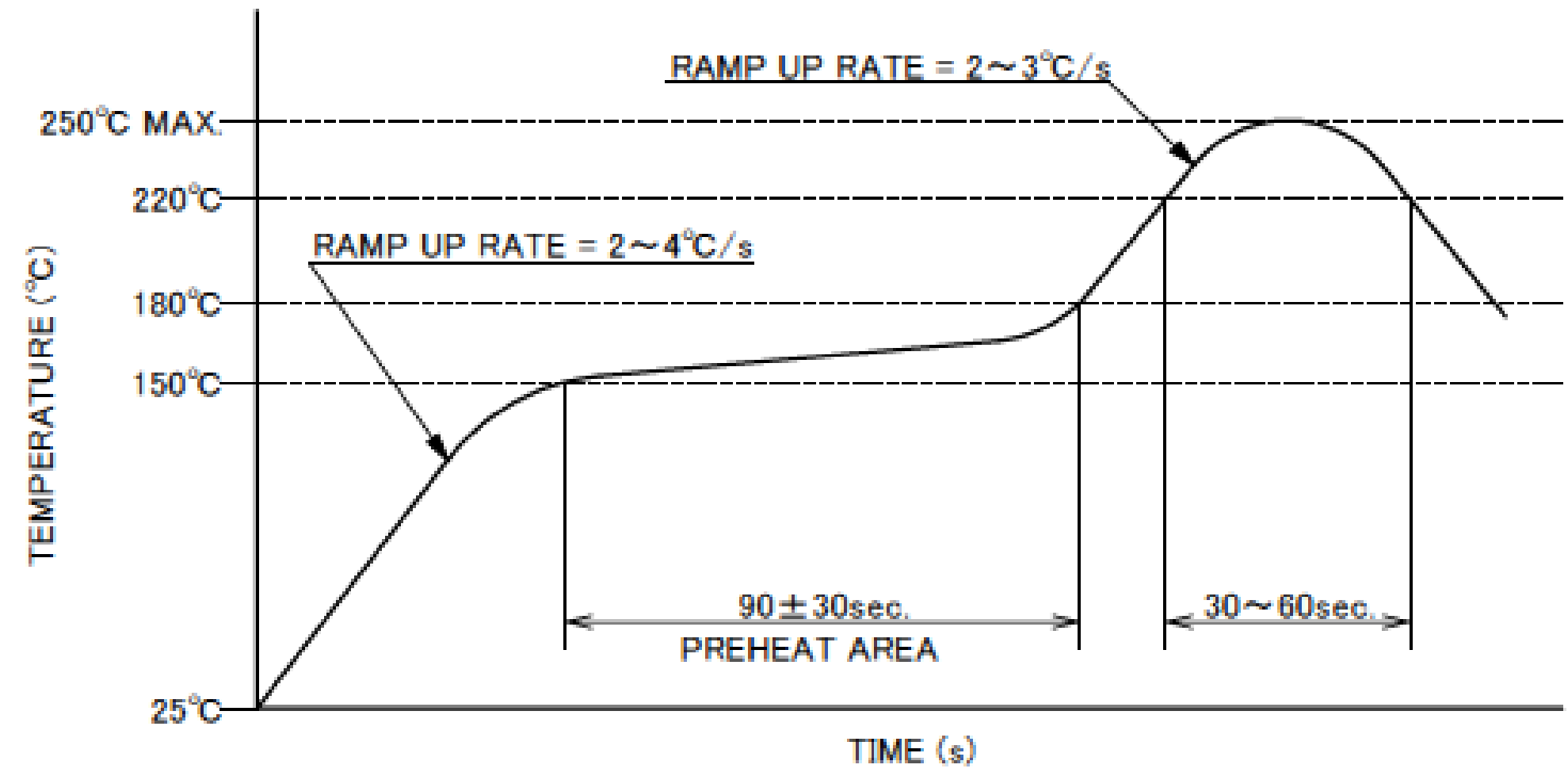
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

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

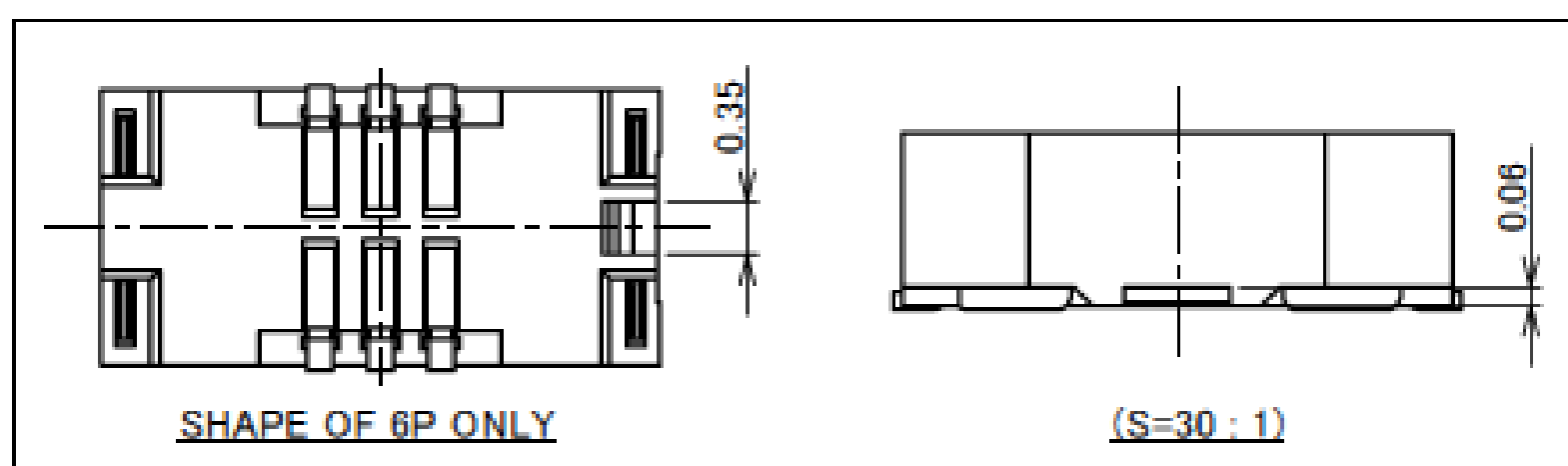
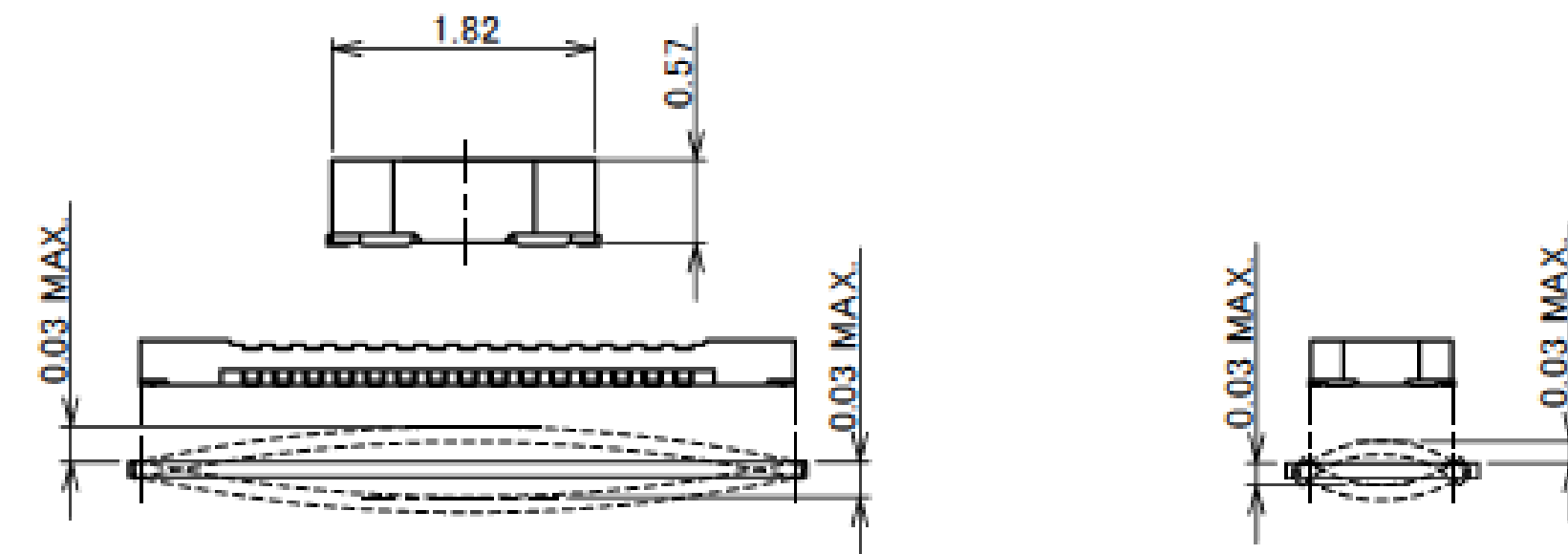
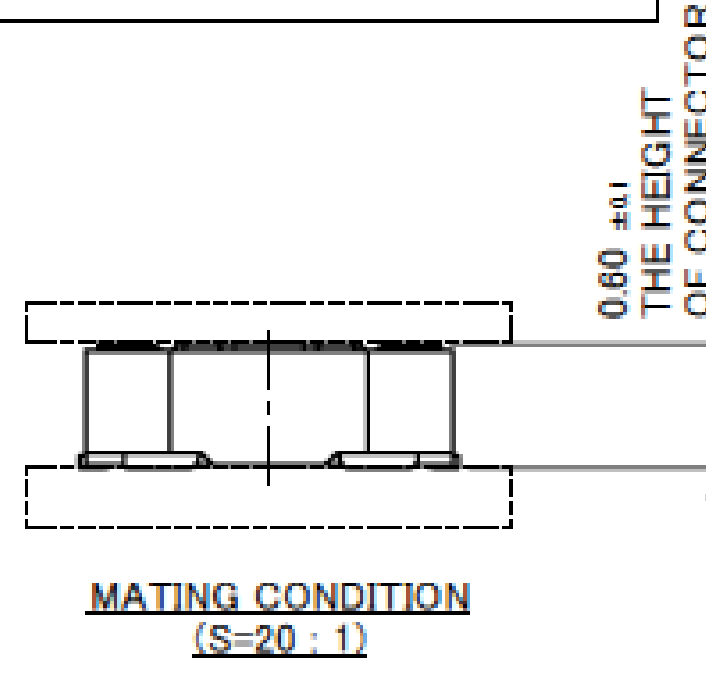
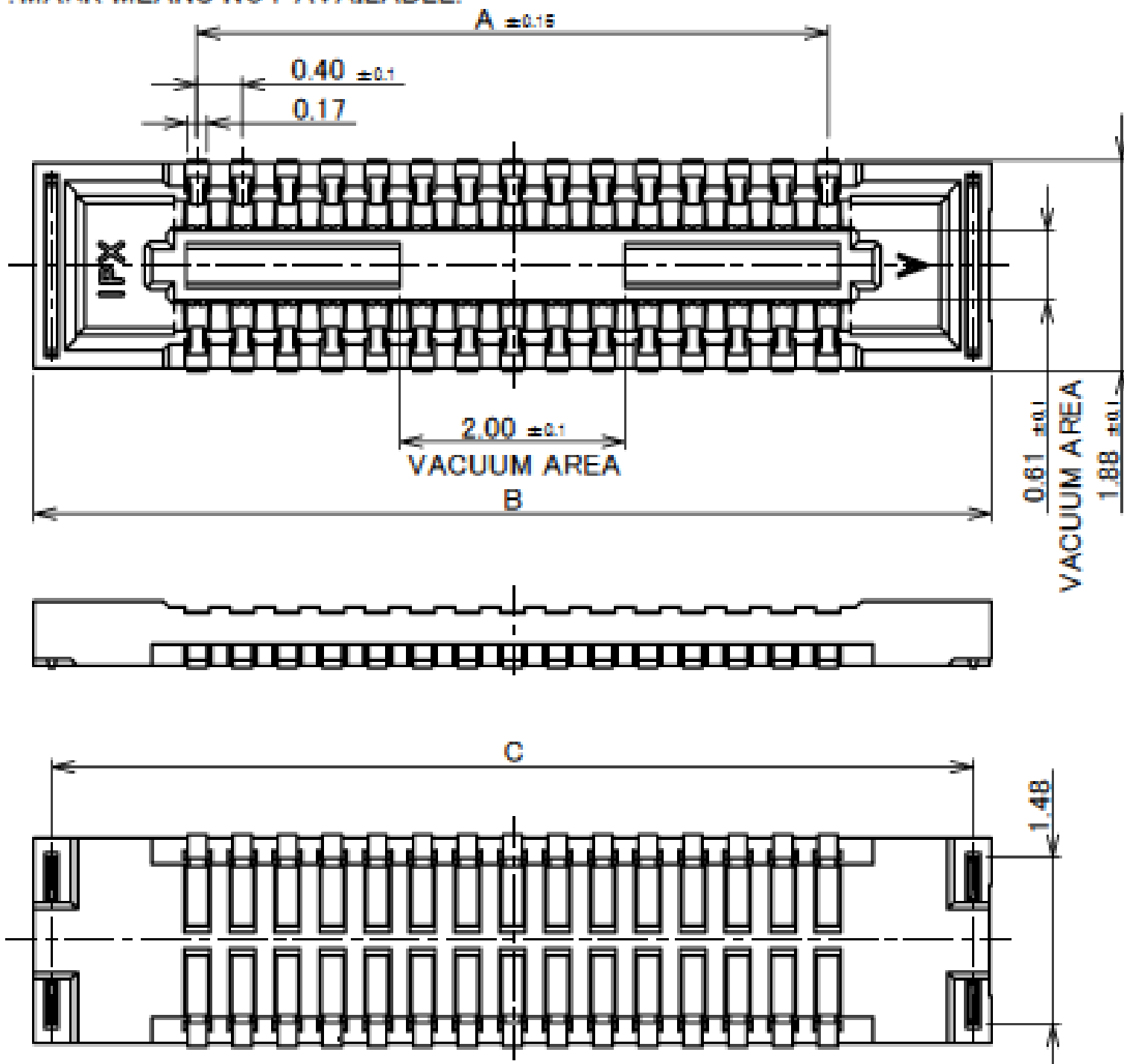
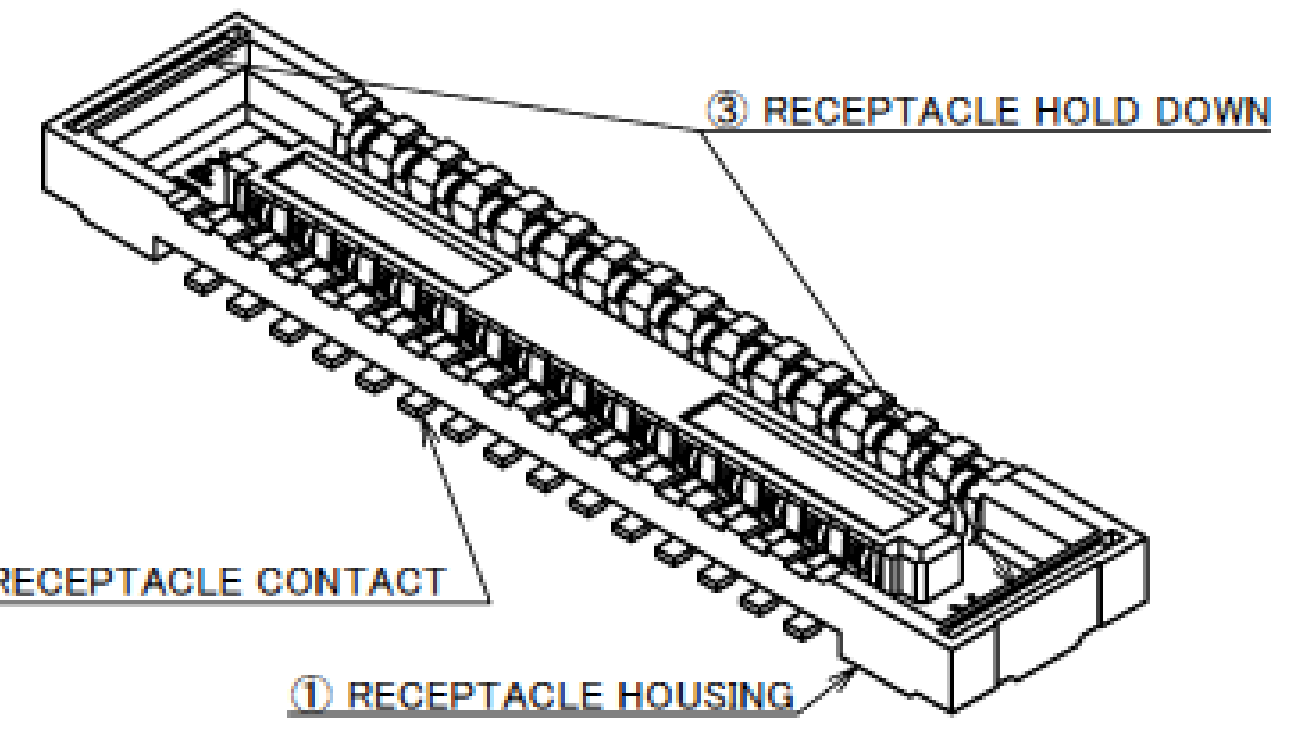
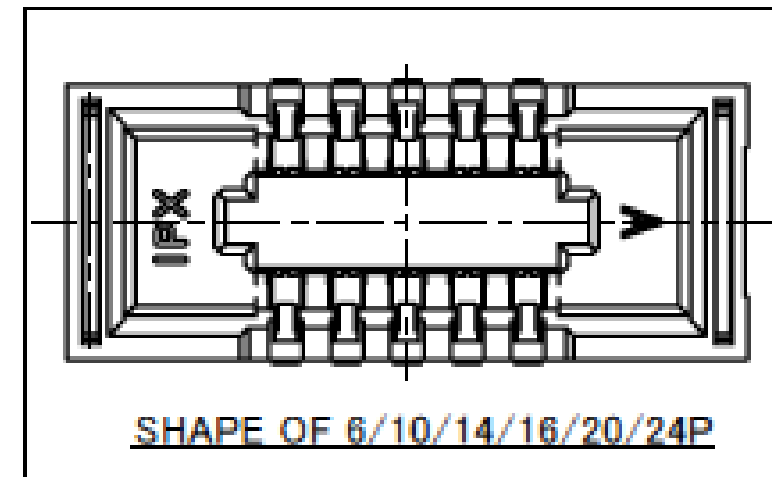
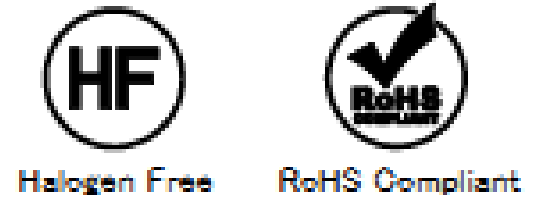
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20642-0**1E
RATING VOLTAGE	60V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.3A AC/DC (PER CONTACT PIN)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 80mohm MAX. / AFTER TEST : Δ 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

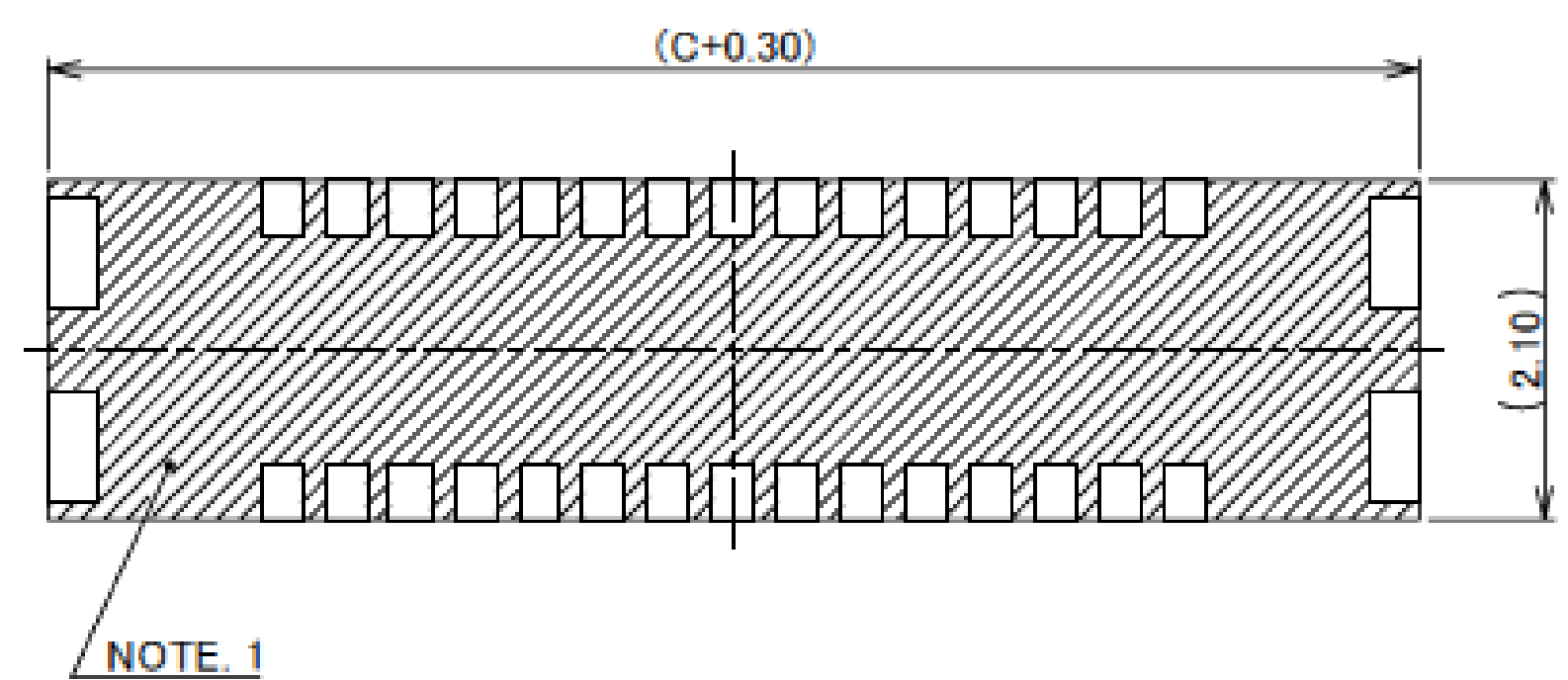
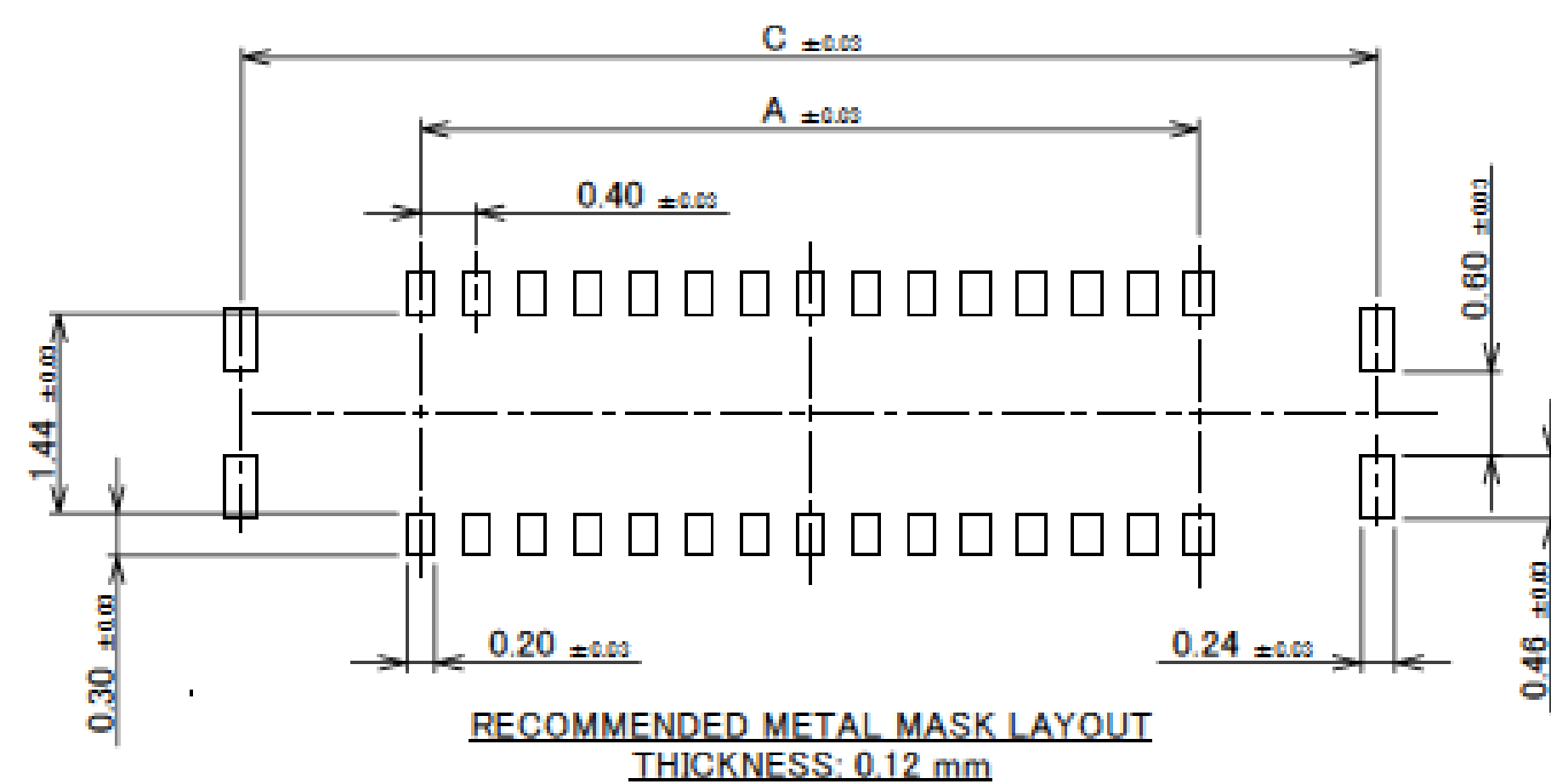
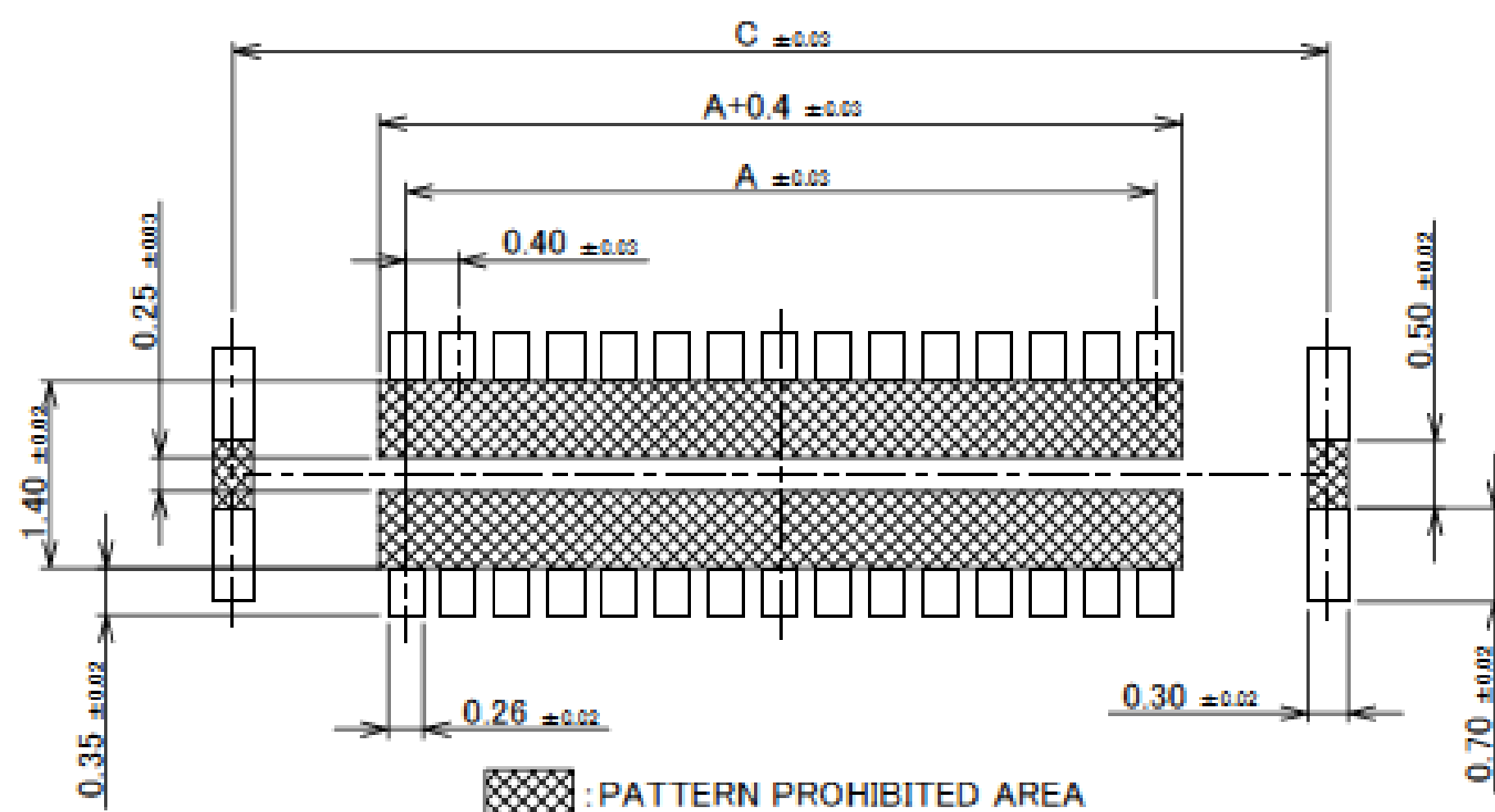
Recommended P/N		20642-0**E			
PART No.	Pos.	A	B	C	
20642-006E	6	0.80	3.70	3.38	
20642-010E	10	1.60	4.50	4.18	
◆ 20642-014E	14	2.40	5.30	4.98	
◆ 20642-016E	16	2.80	5.70	5.38	
◆ 20642-020E	20	3.60	6.50	6.18	
20642-024E	24	4.40	7.30	6.98	
20642-030E	30	5.60	8.50	8.18	
20642-034E	34	6.40	9.30	8.98	
20642-040E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

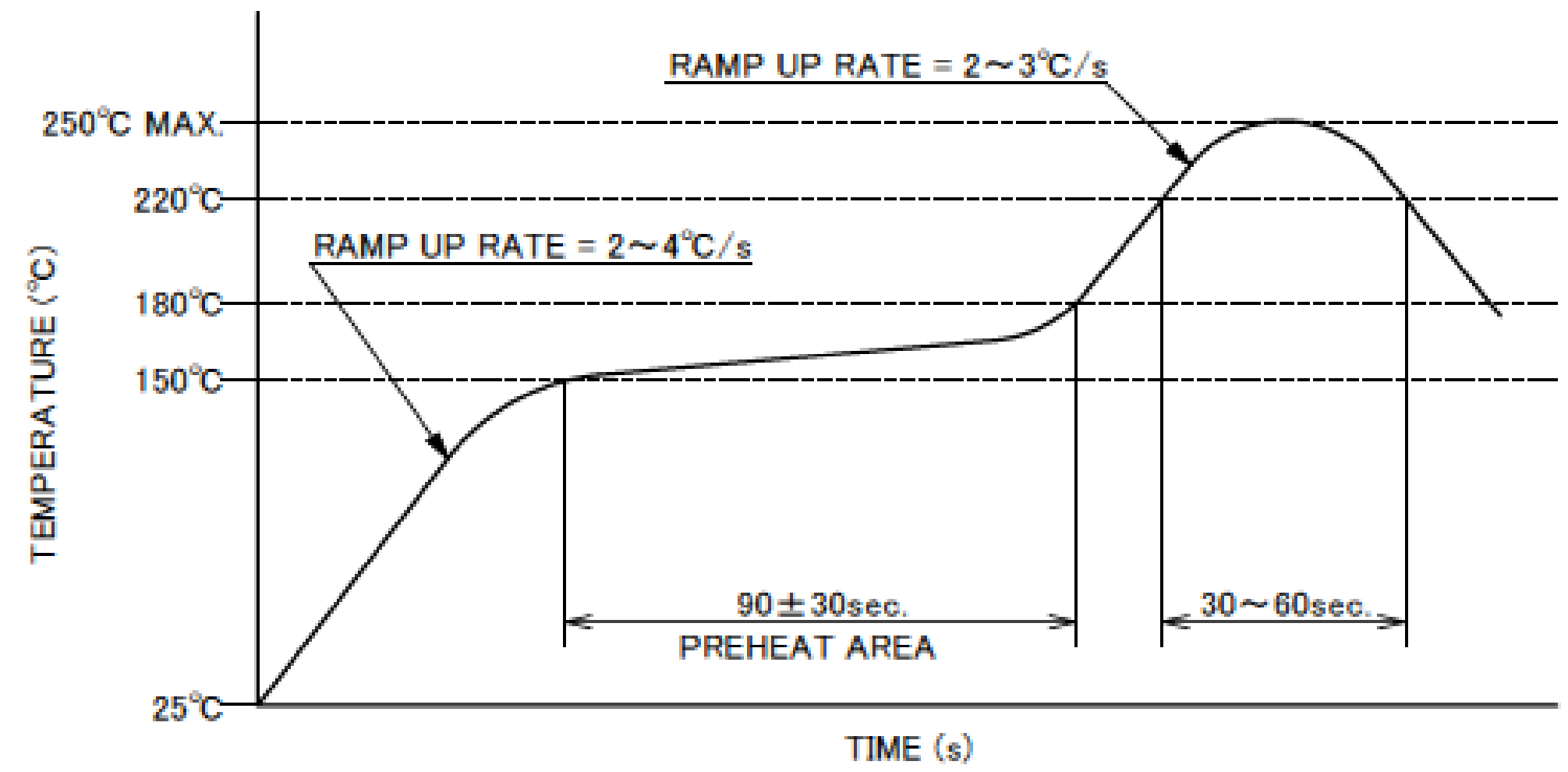
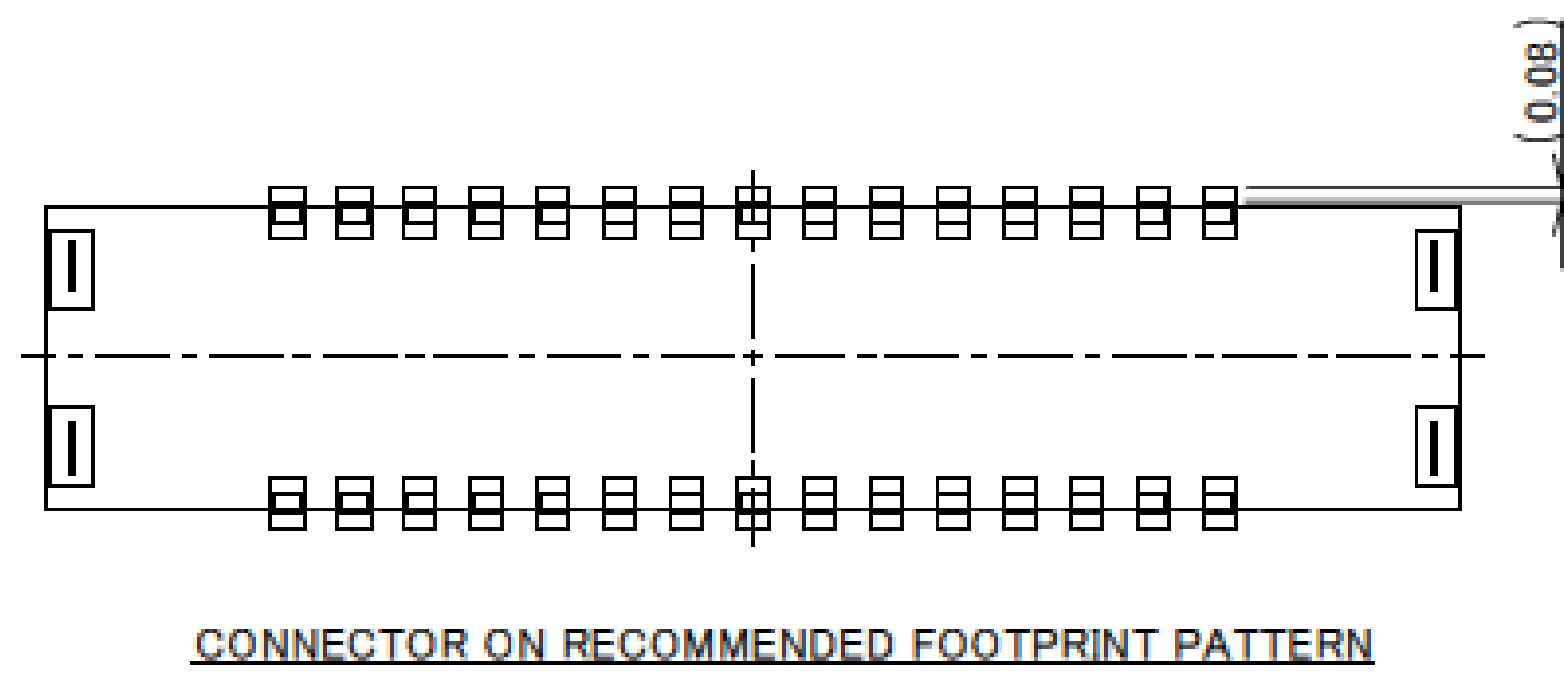
Rev.10



NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.10

Receptacle Assembly



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

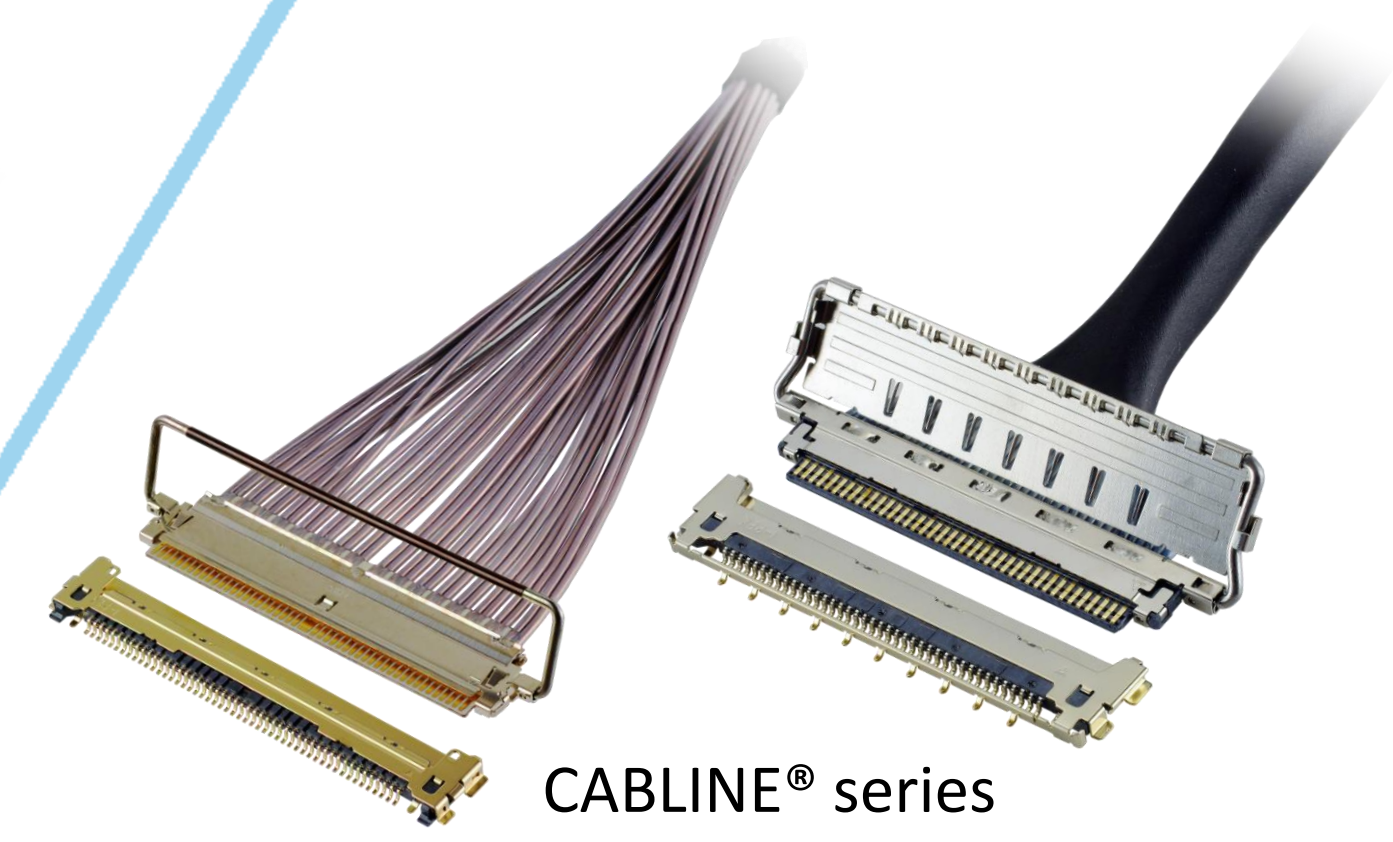
Custom Connectors Available

 RF Connector

MHF® series



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



Optical Module

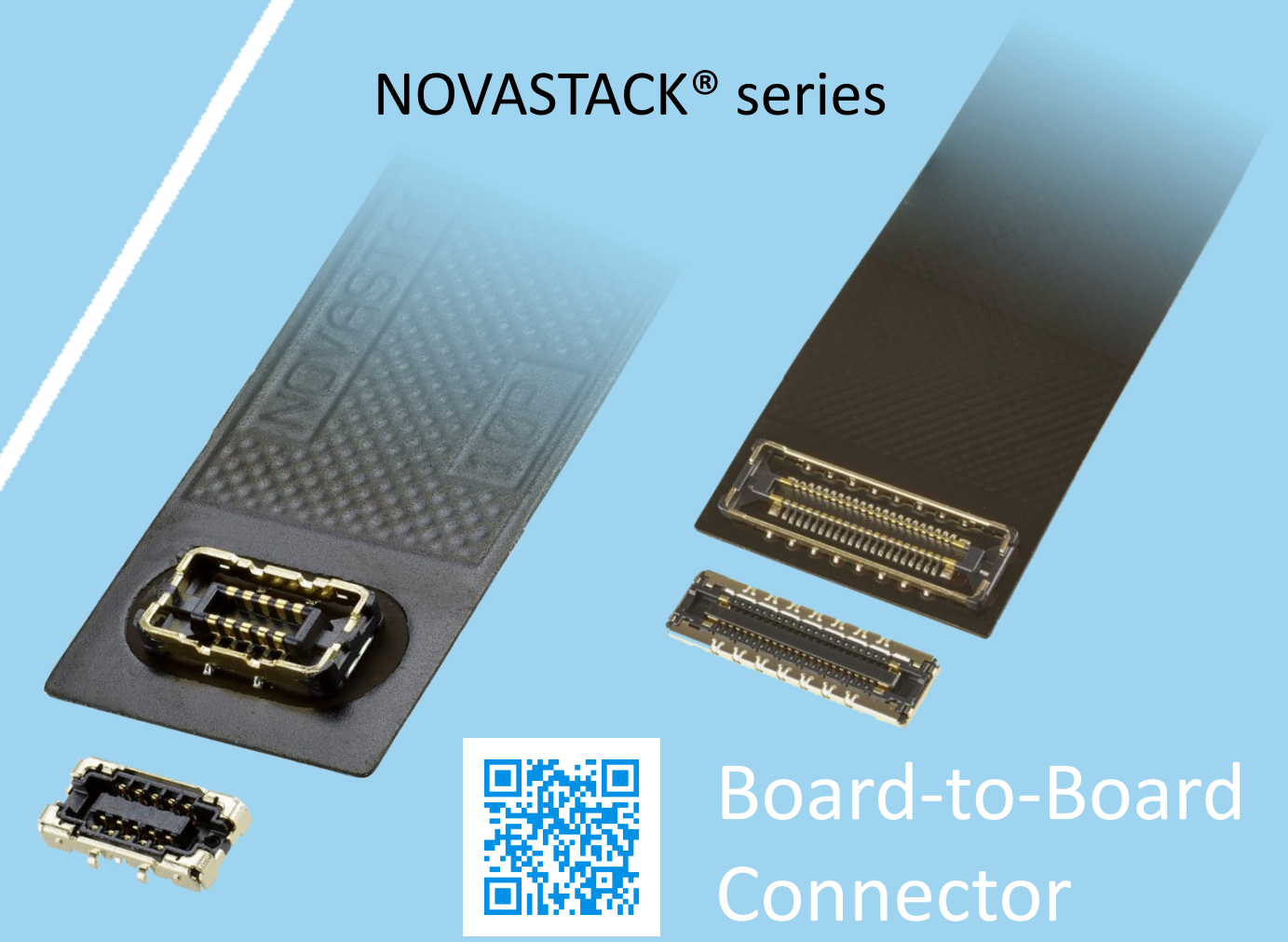
LIGHTPASS® series



NOVASTACK® series



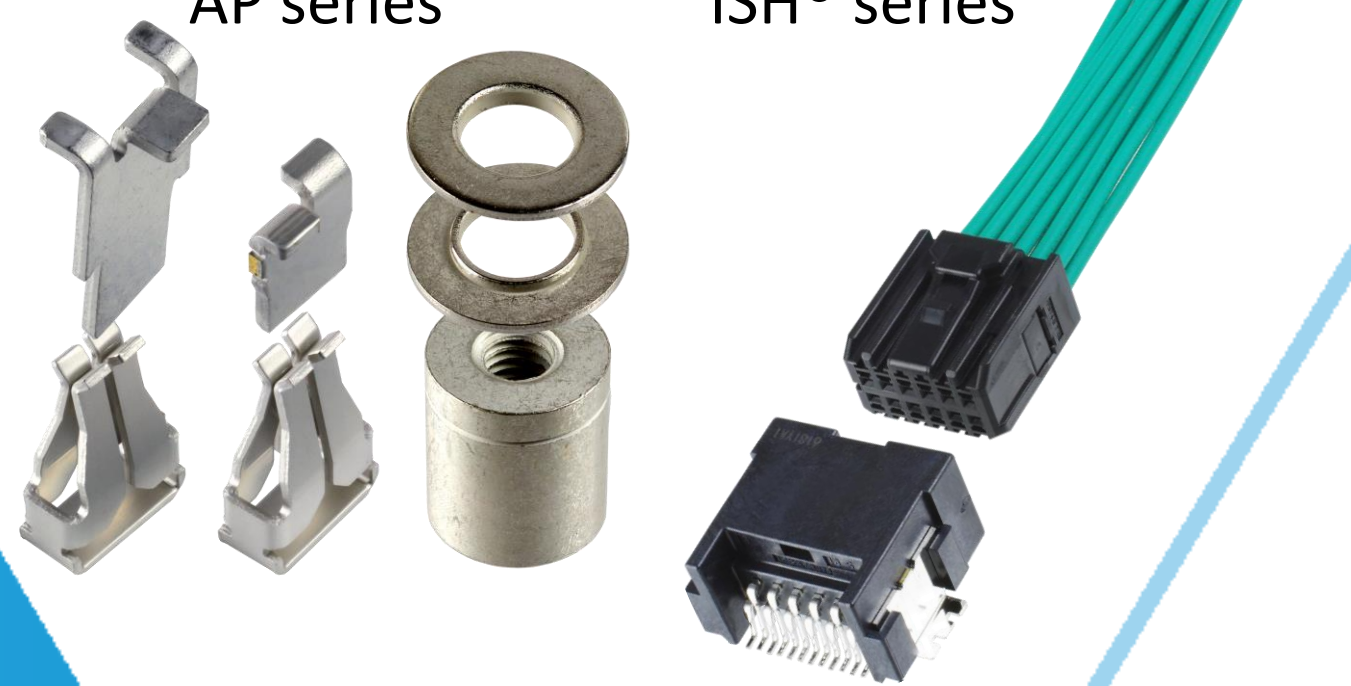
Board-to-Board Connector



Power Connector/
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC Connector



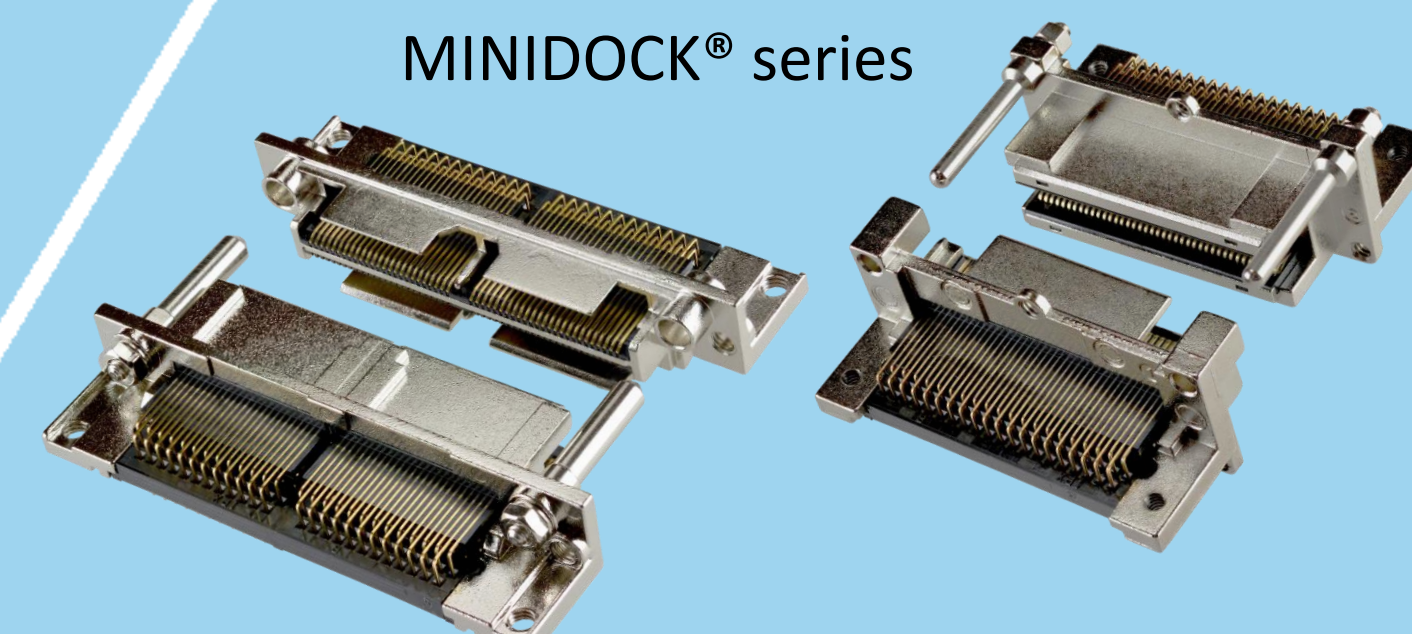
Inquiry



MINIDOCK® series



I/O Connector



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



I-PEX

© I-PEX Inc. 2024
All rights reserved