

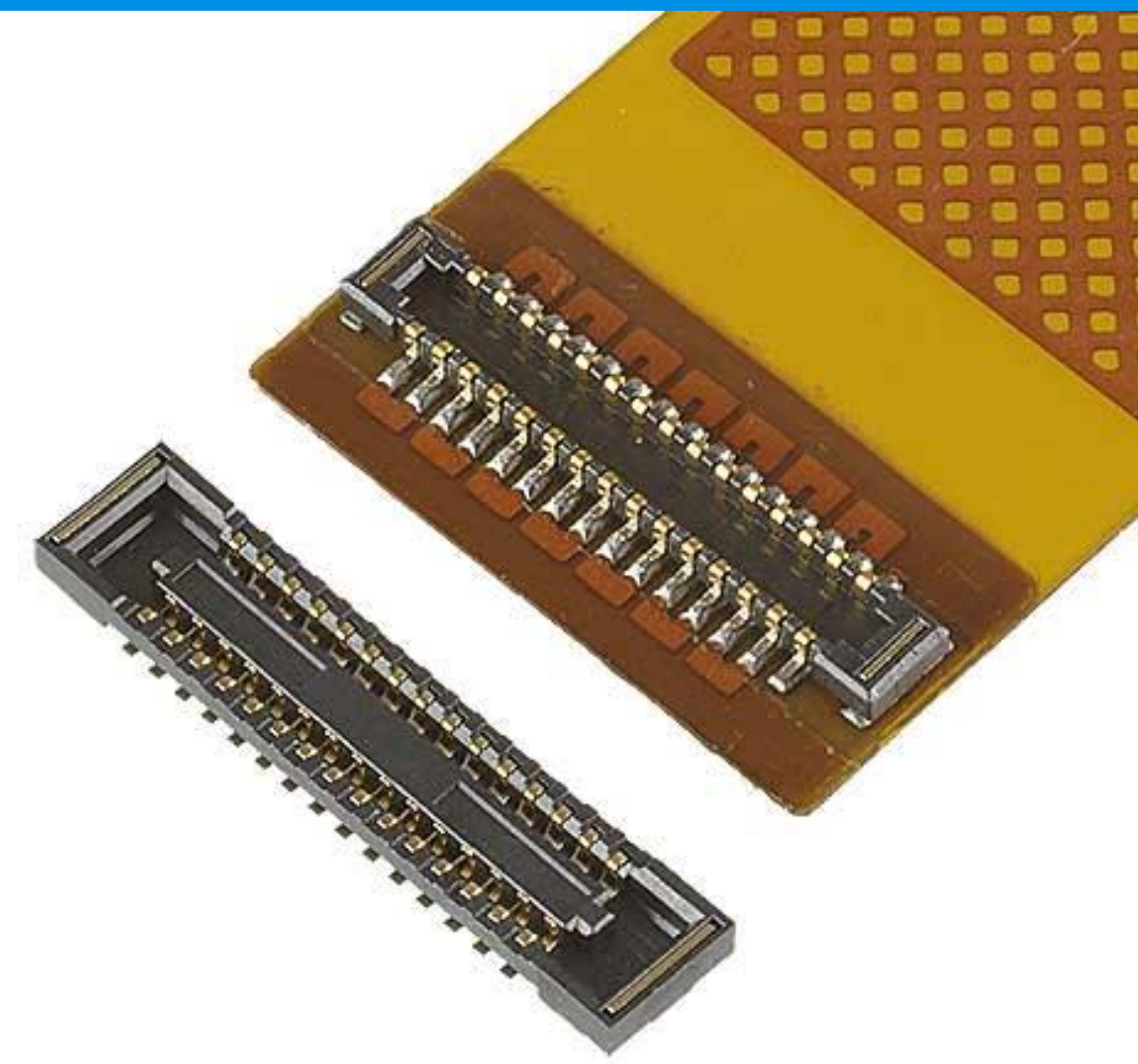
NOVASTACK® 4

窄款低背设计, 0.4 mm 间距, 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 |

*如您需要了解未列出或不在范围内的Pin数, 请咨询我们。

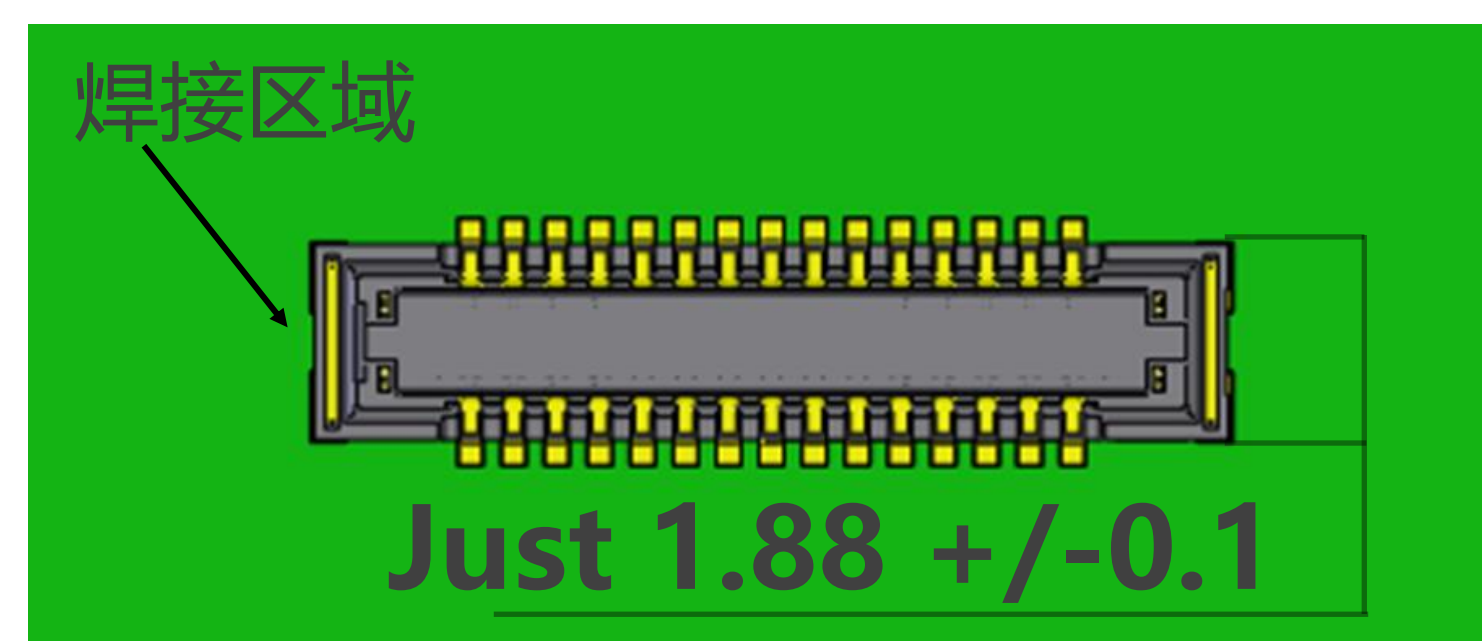


► 超窄款式, 深度1.88 mm, 节约占板面积

RED: 计划中

| 极数 | 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 |
| 面积削减率 | - | 10.9% | 9.0% | 8.1% | 7.4% | 7.1% | 6.5% | 6.1% | 5.6% | 3.7% |

(Unit: mm²)



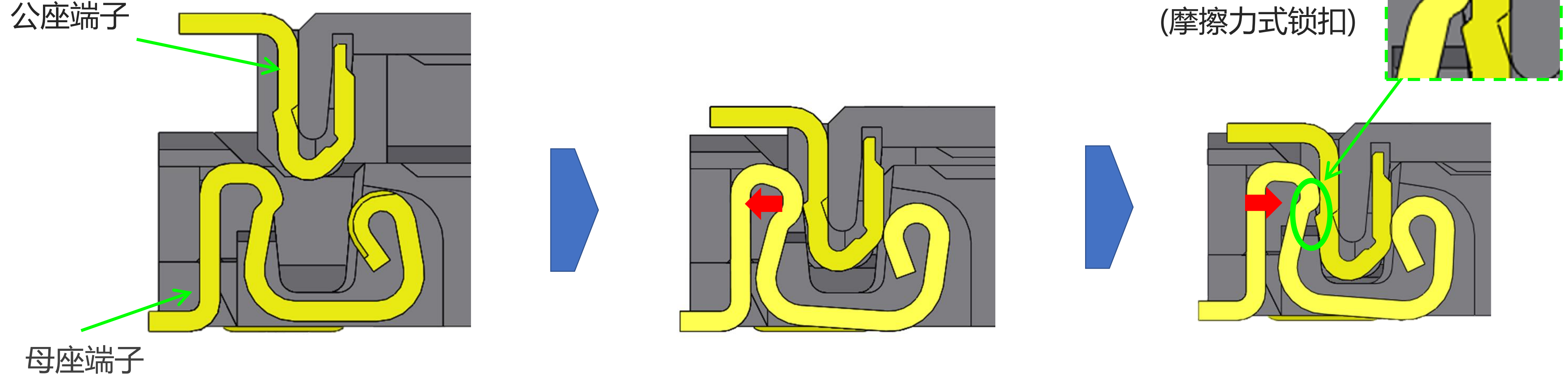
焊接区域节约 4 ~ 11%

► 稳定的保持力和插入时的手感

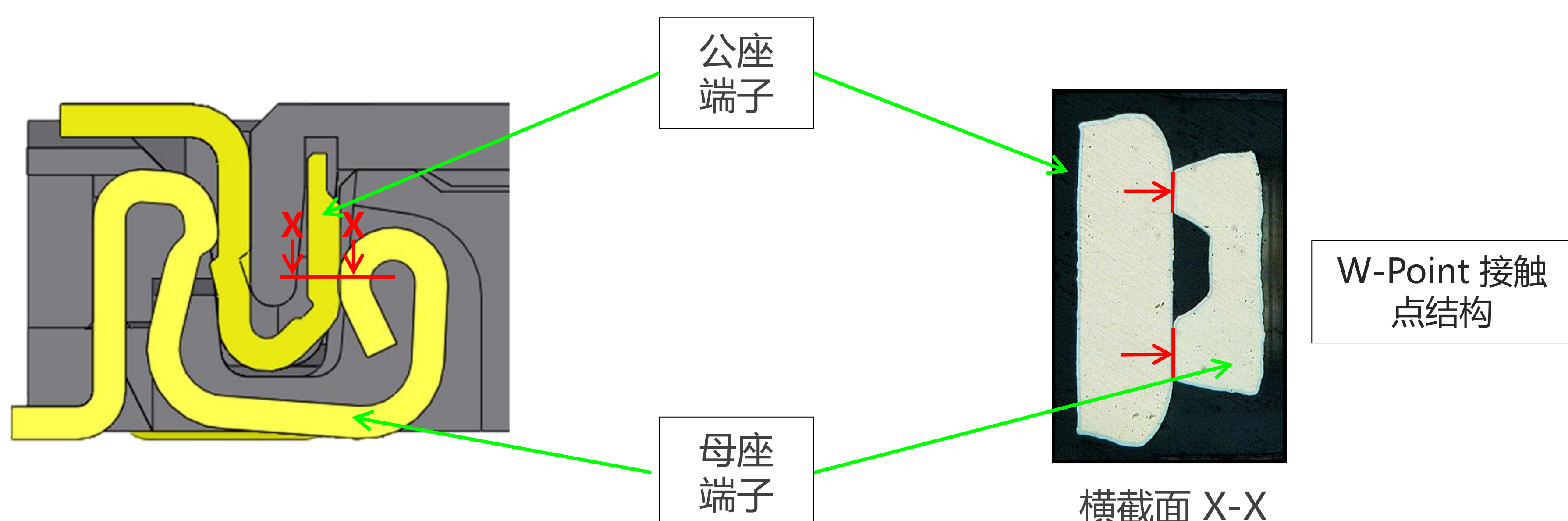
公座端子

辅接触点侧
(摩擦力式锁扣)

母座端子



► 超窄款式, 深度1.88 mm, 节约占板面积

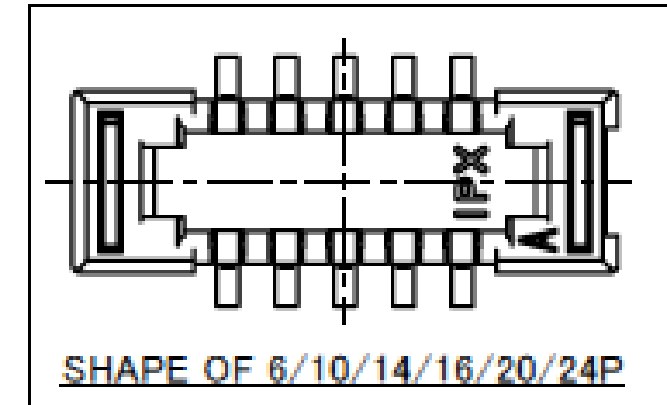
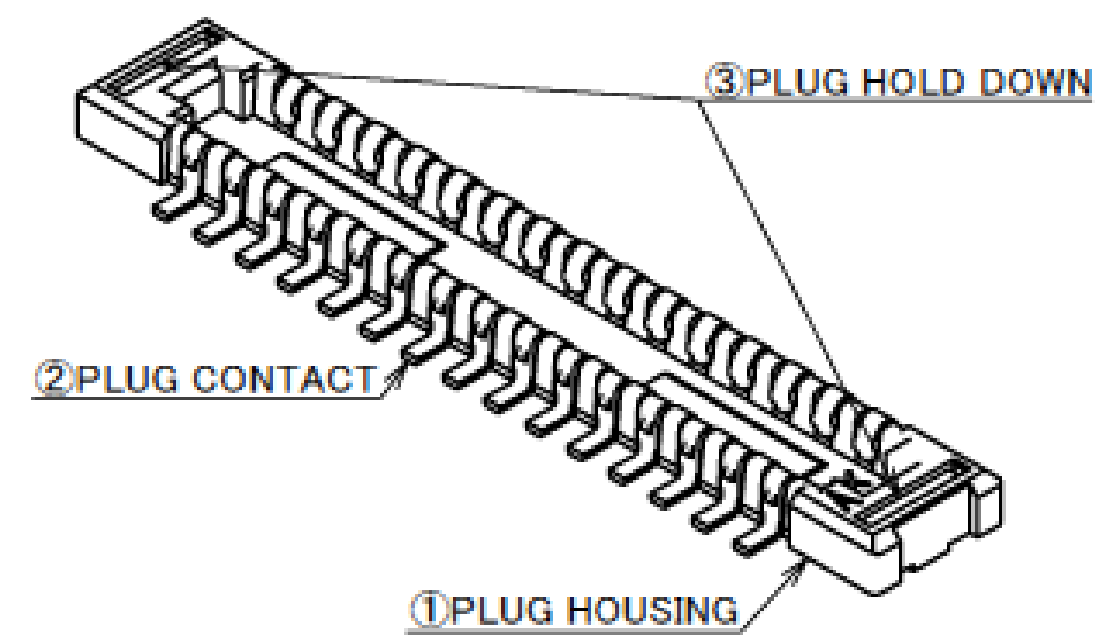
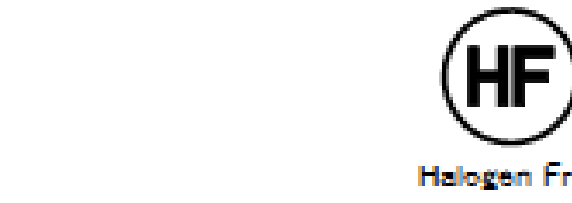
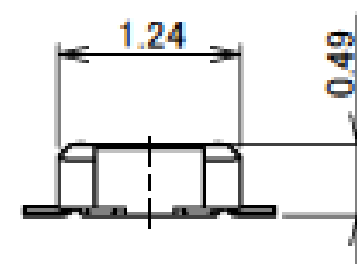
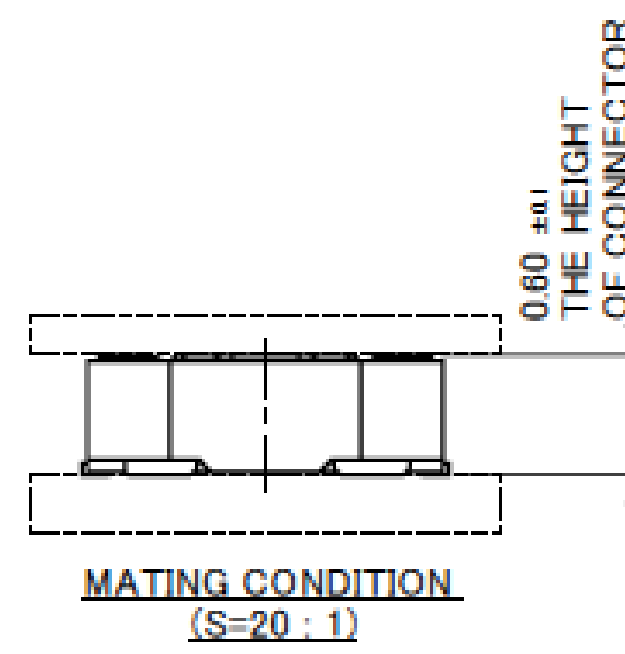
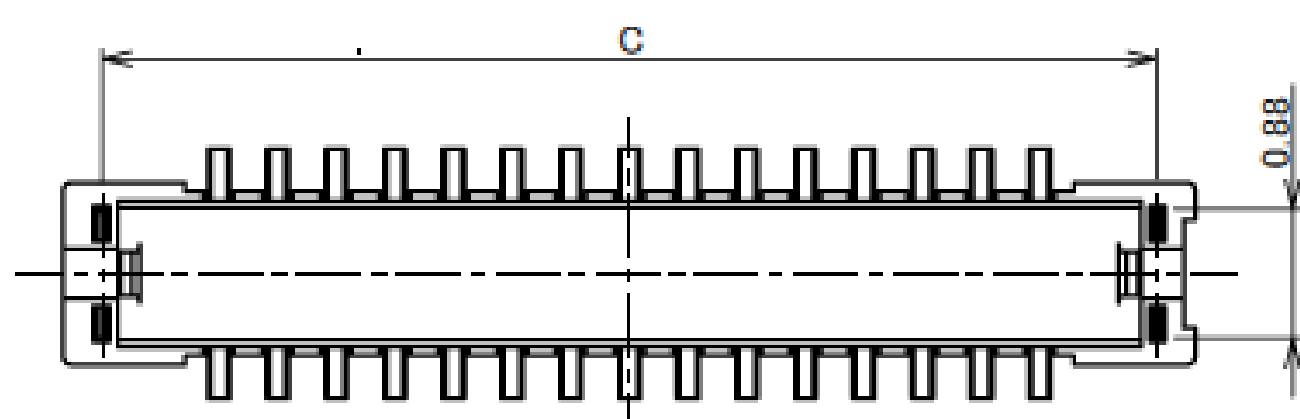
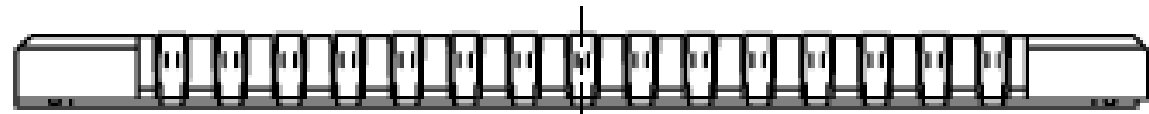
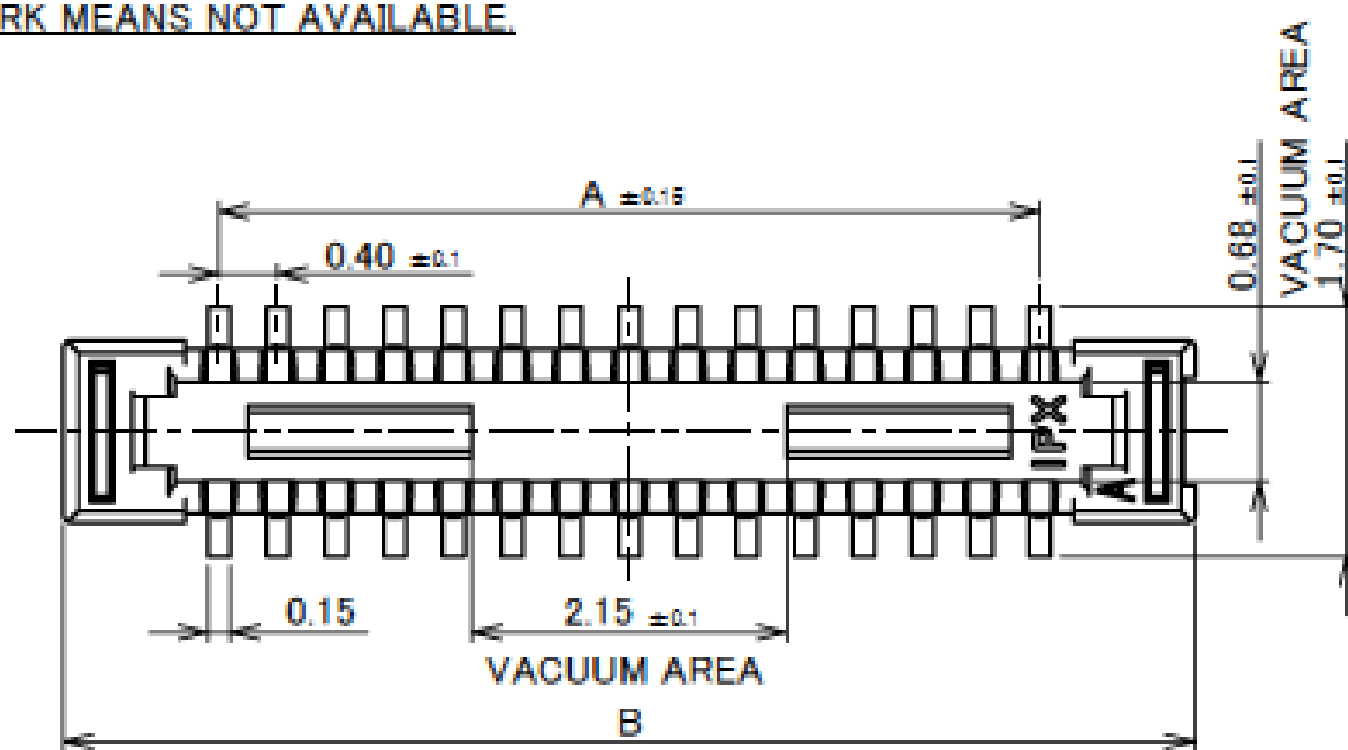


Component Parts Details

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.



| 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.

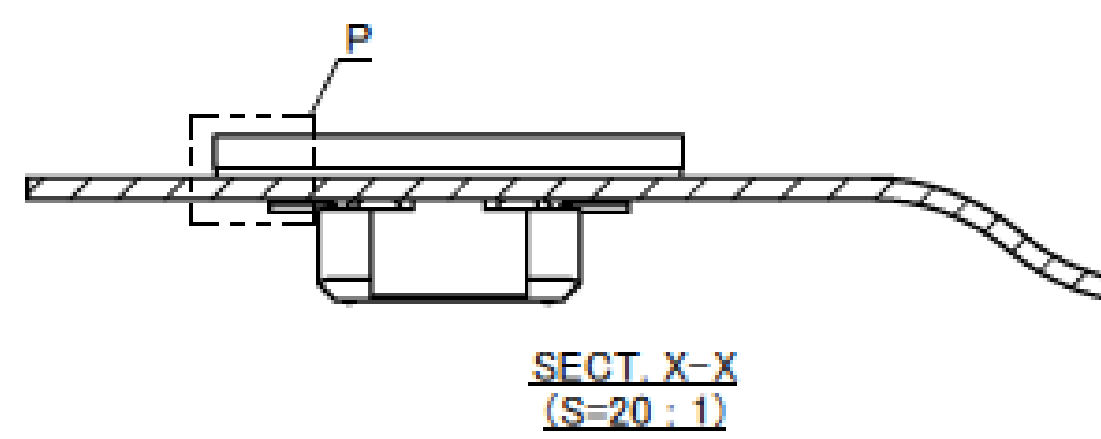
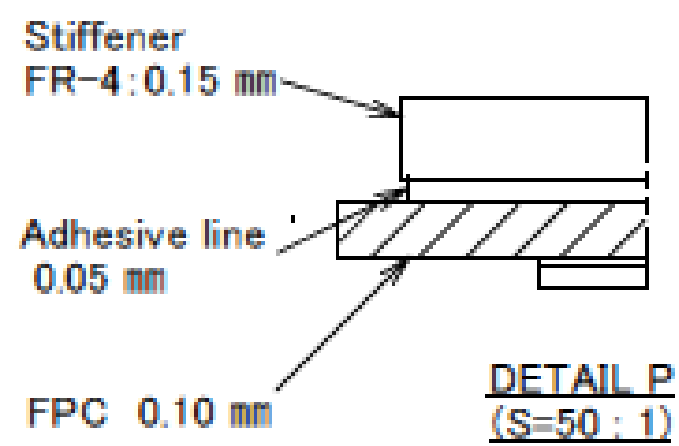
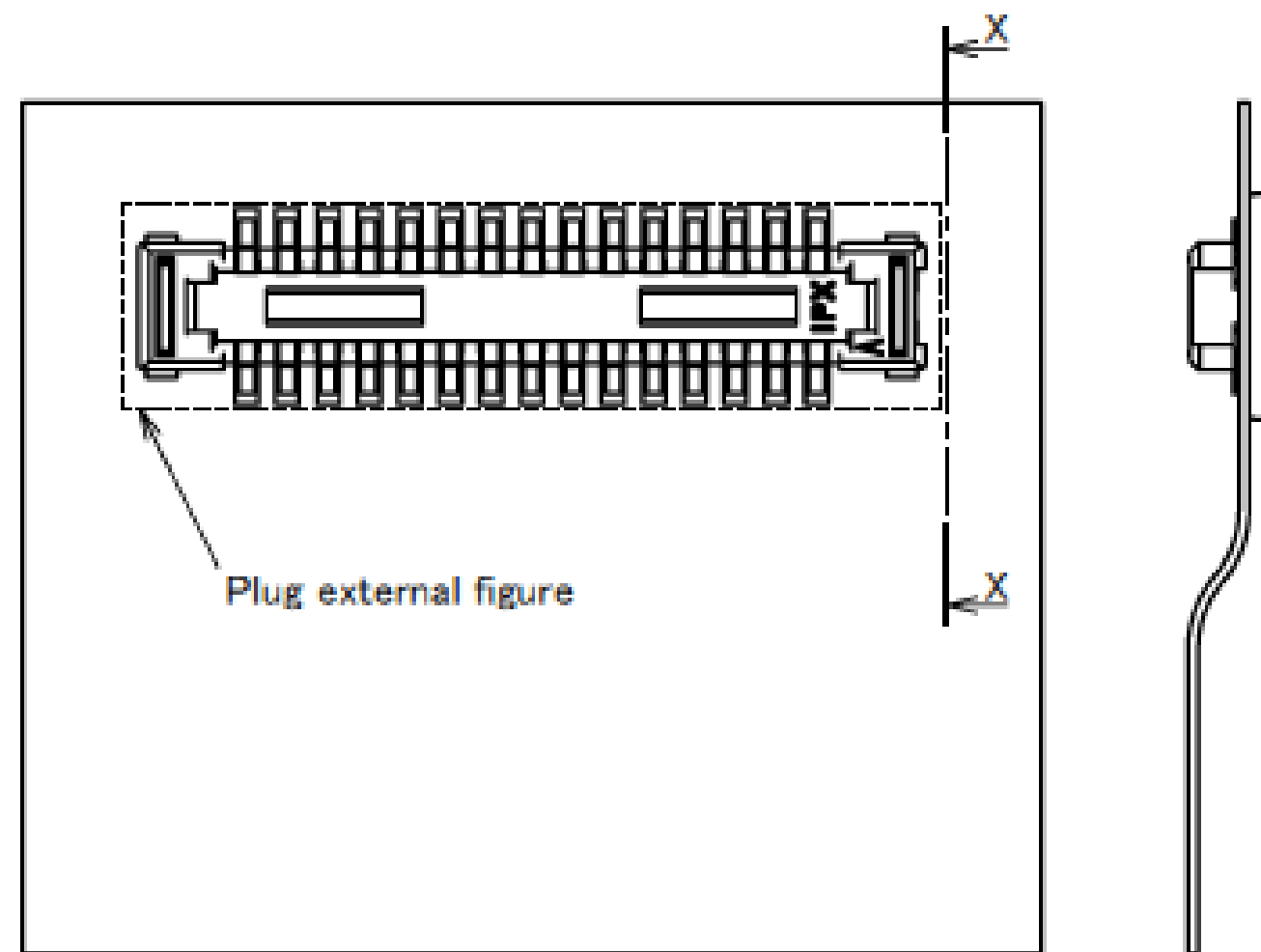
Recommended stiffener size :

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

Recommended FPC and stiffener thickness:

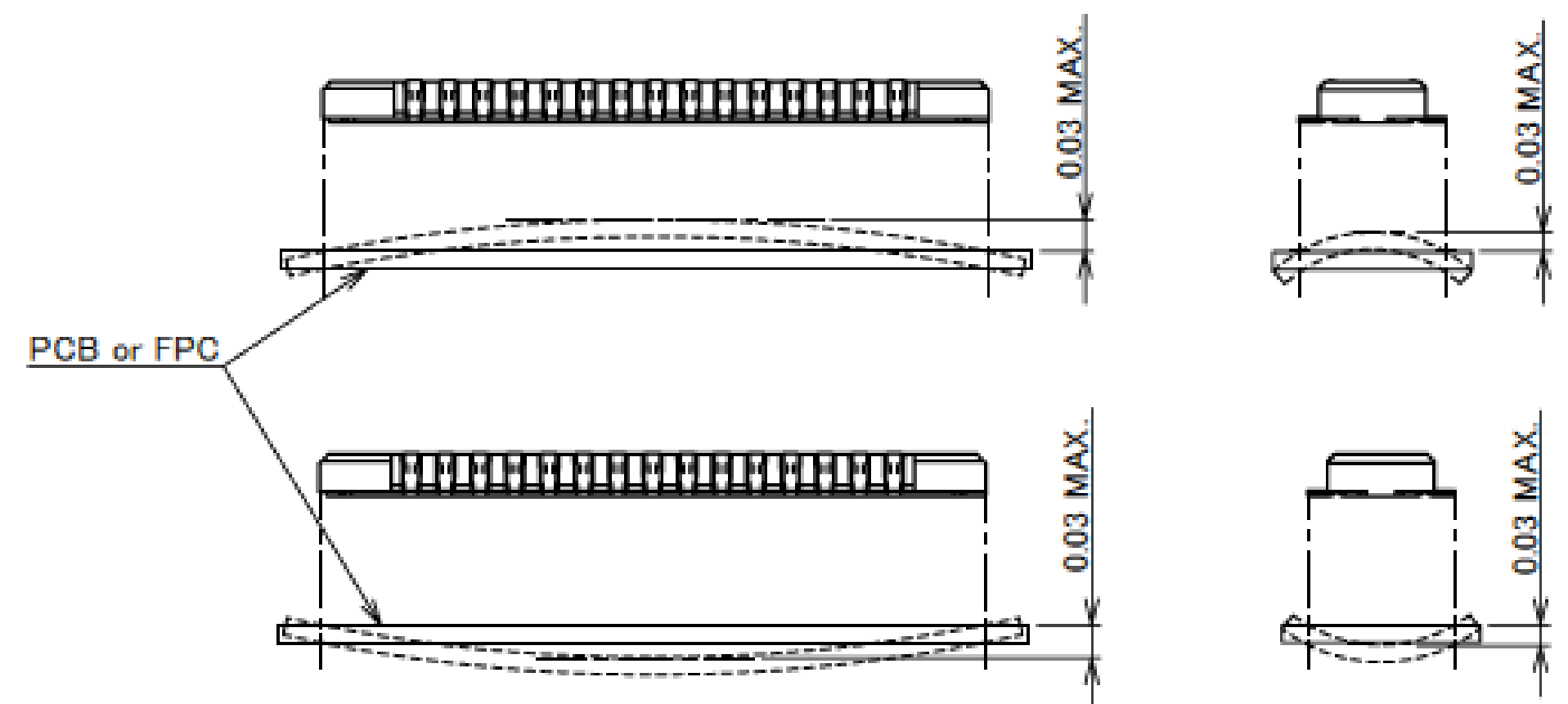
Minimum 0.3 mm

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

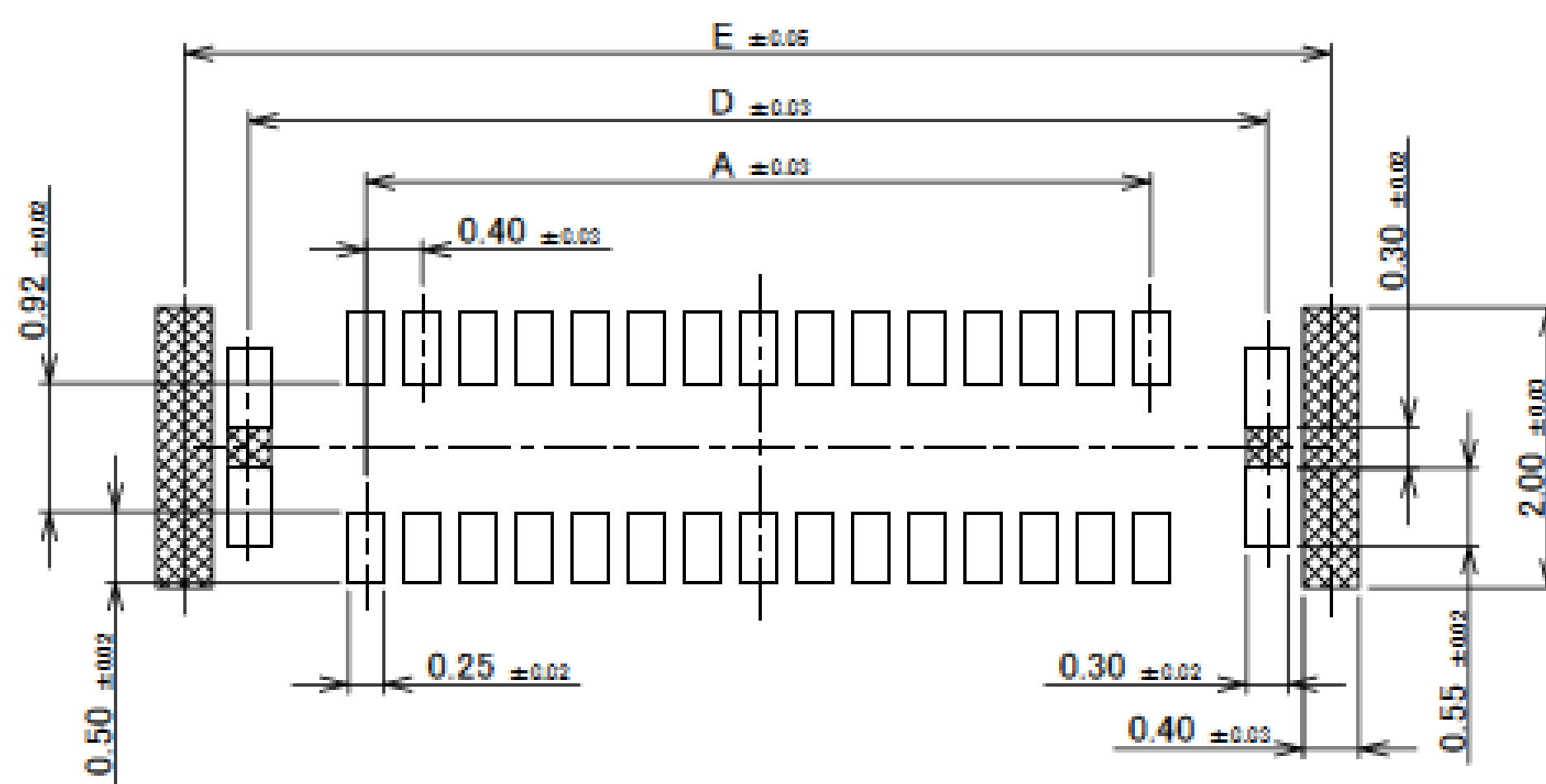


2. Warp of PCB or FPC

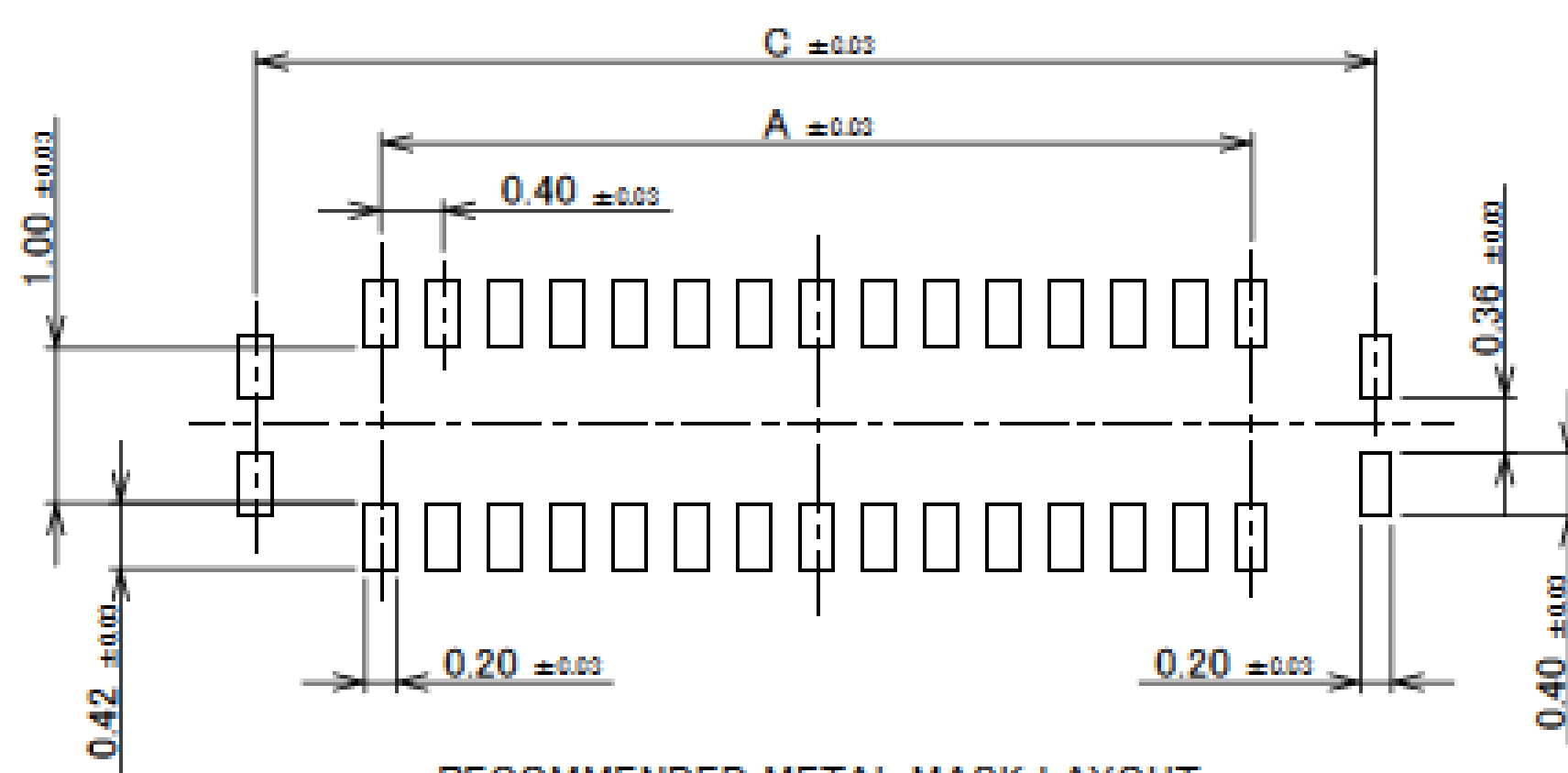
PCB /FPC warping is maximum 0.03 mm, with both ends of the plug.



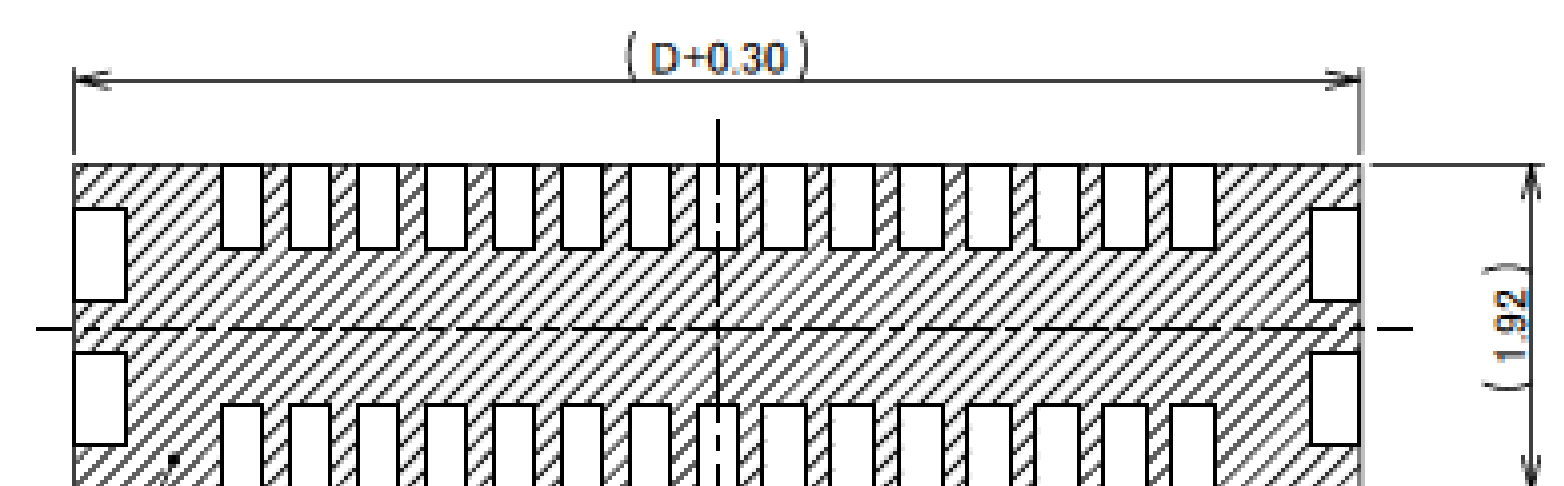
Rev.11



RECOMMENDED PATTERN LAYOUT



RECOMMENDED METAL MASK LAYOUT
THICKNESS: 0.12 mm



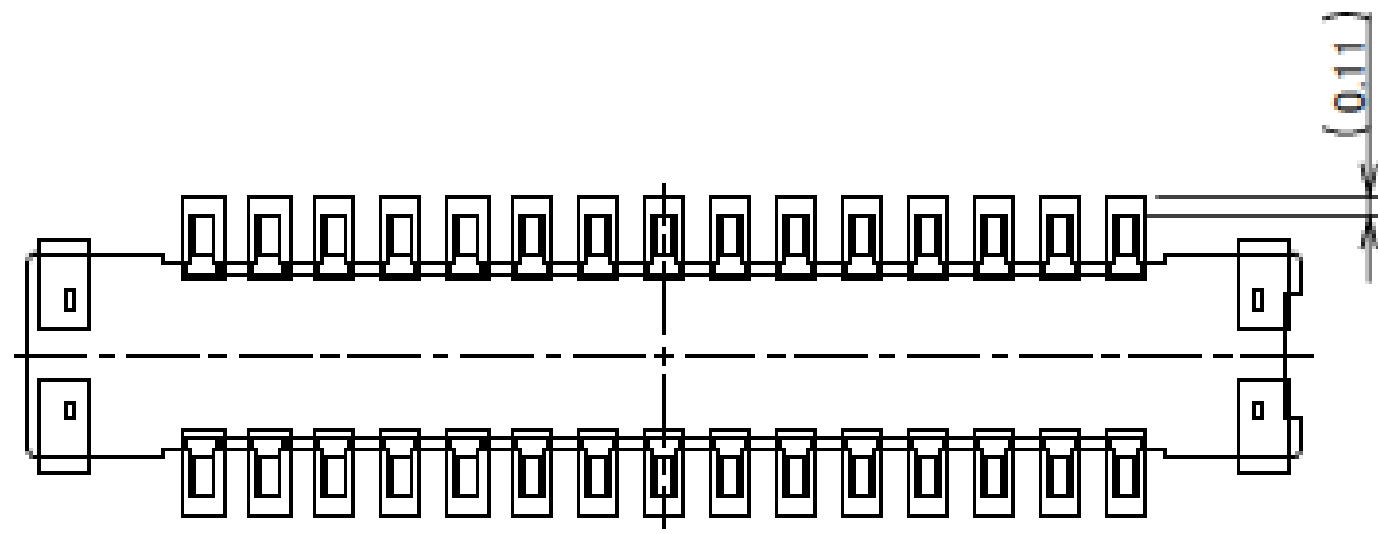
NOTE 1

NOTES.

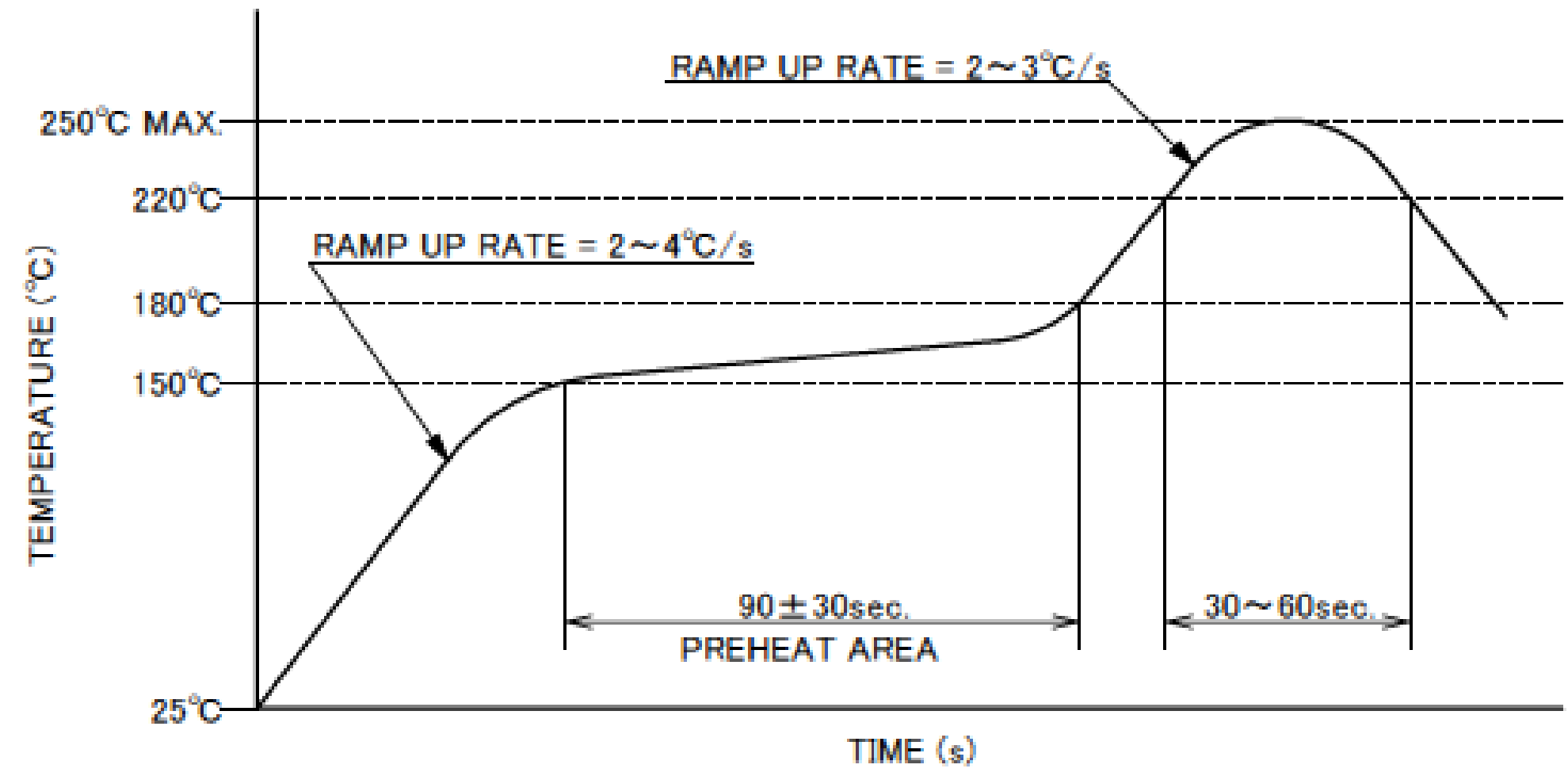
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

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

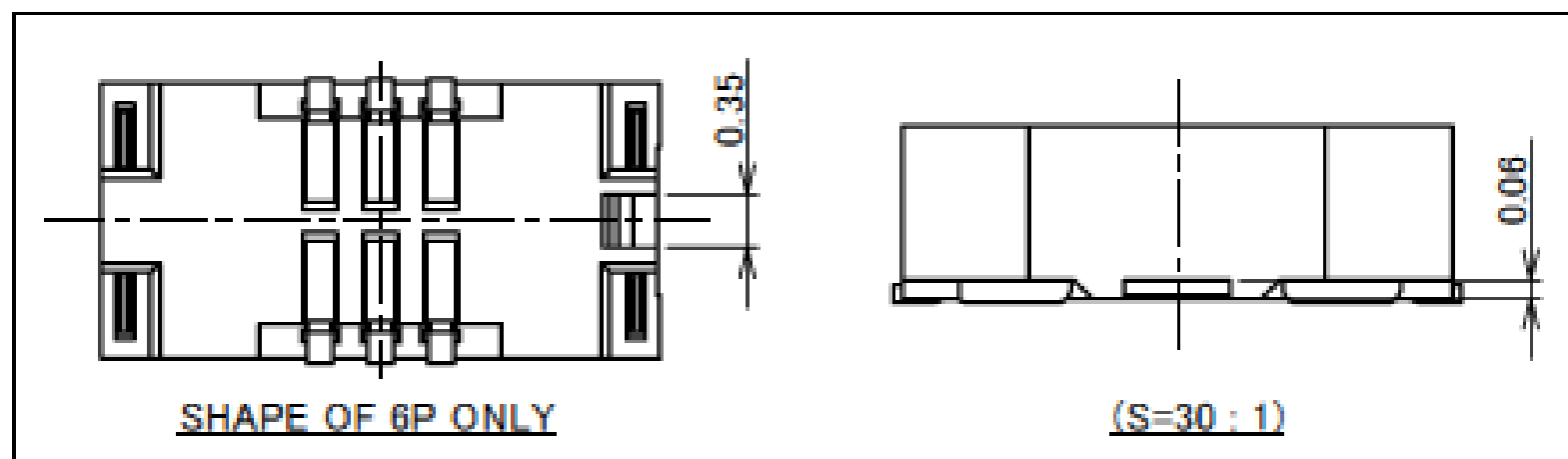
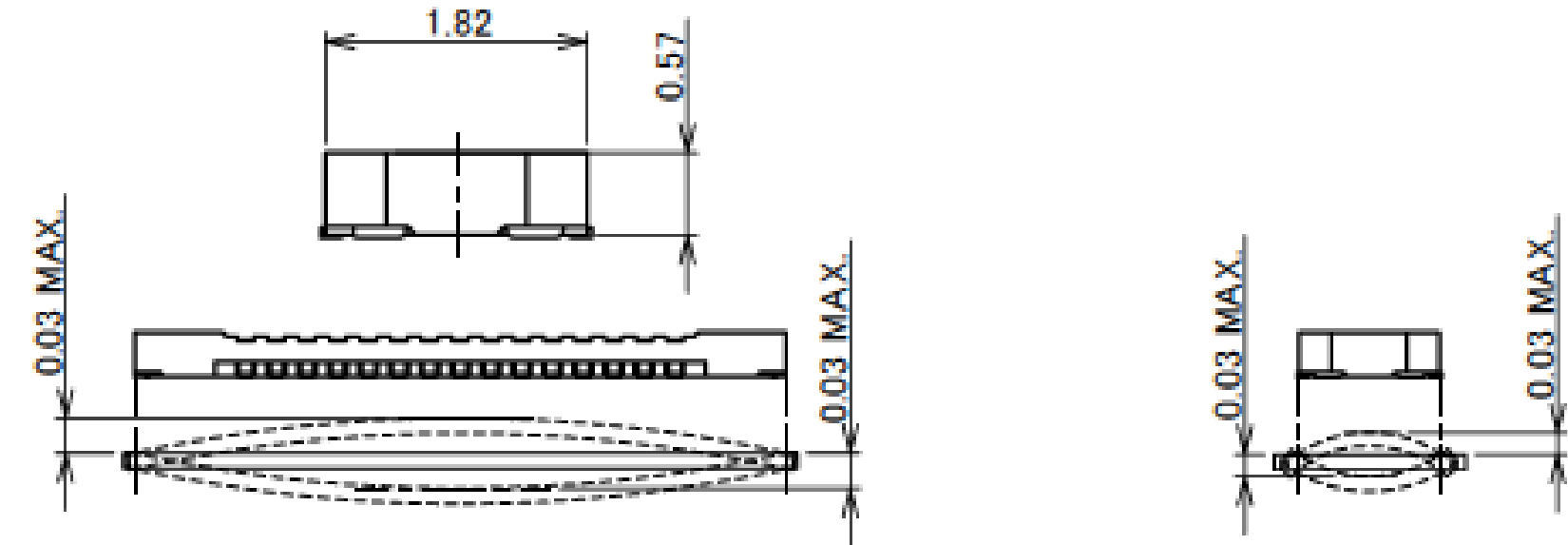
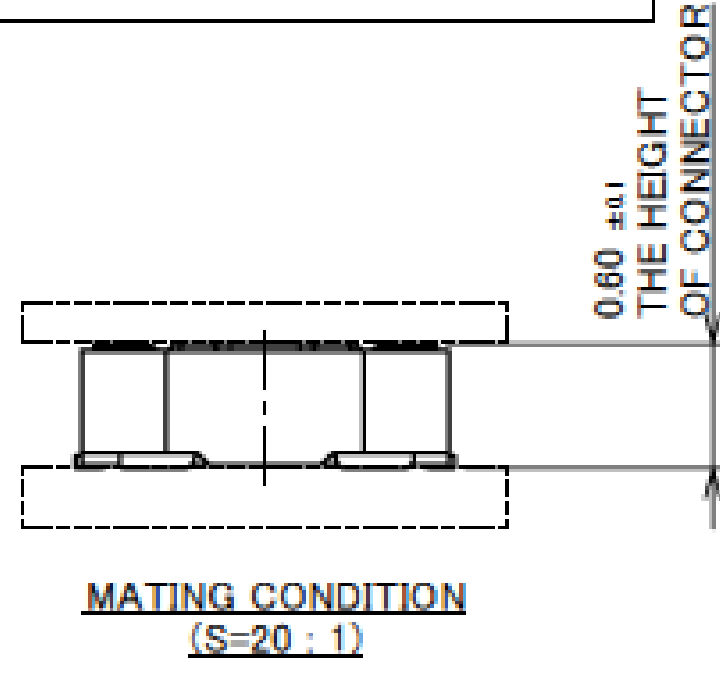
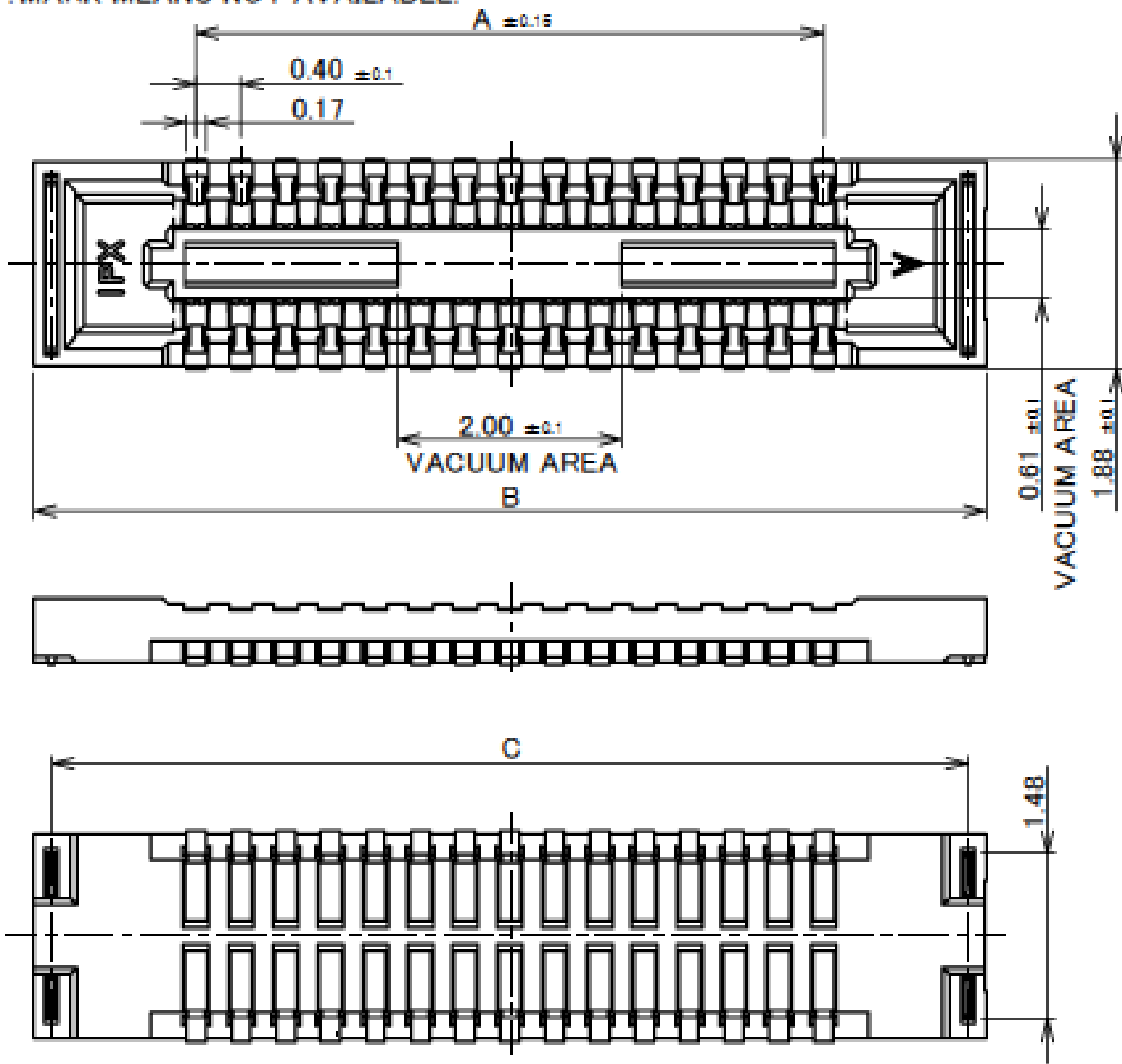
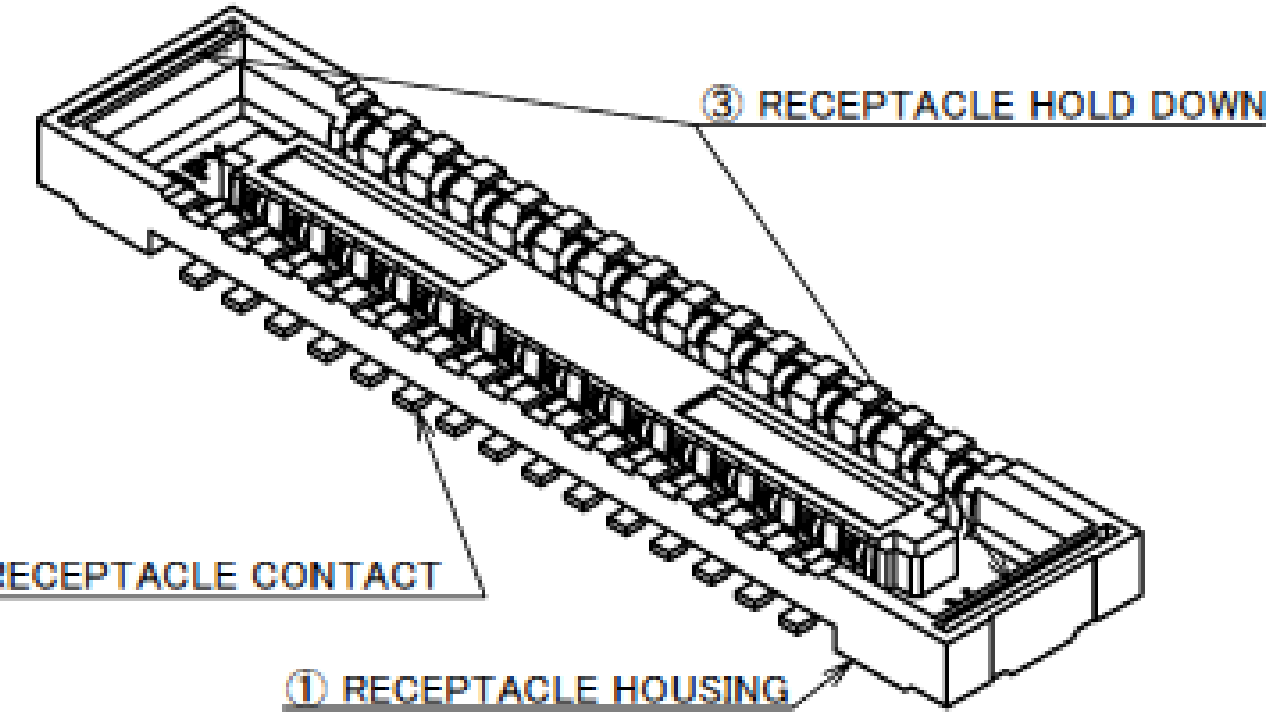
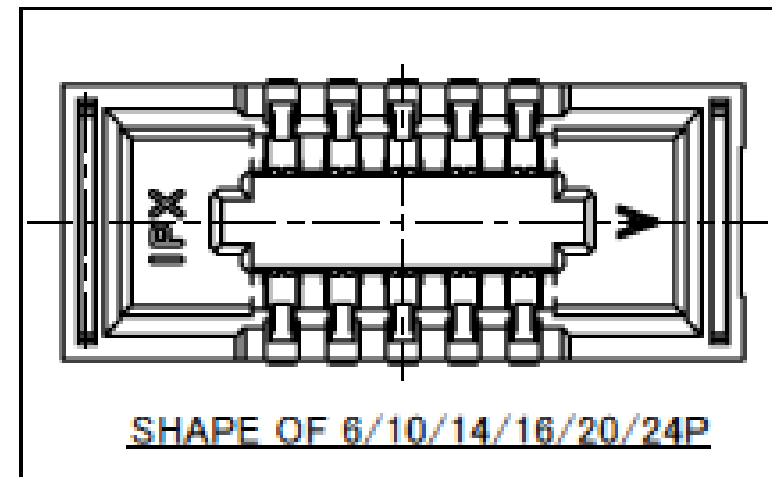
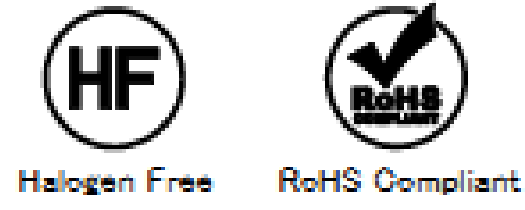
| ITEMS | SPECIFICATION |
|---|---|
| APPLICABLE CONNECTOR PART No. | 20642-0**1E |
| RATING VOLTAGE | 60V AC (PER CONTACT PIN) |
| RATING AMPERAGE (FOR SIGNAL CONTACT) | 0.3A AC/DC (PER CONTACT PIN) |
| OPERATING TEMPERATURE | 233~358K(-40°C~+85°C) |
| OPERATING HUMIDITY | 85% MAX.(NON-CONDENSING) |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

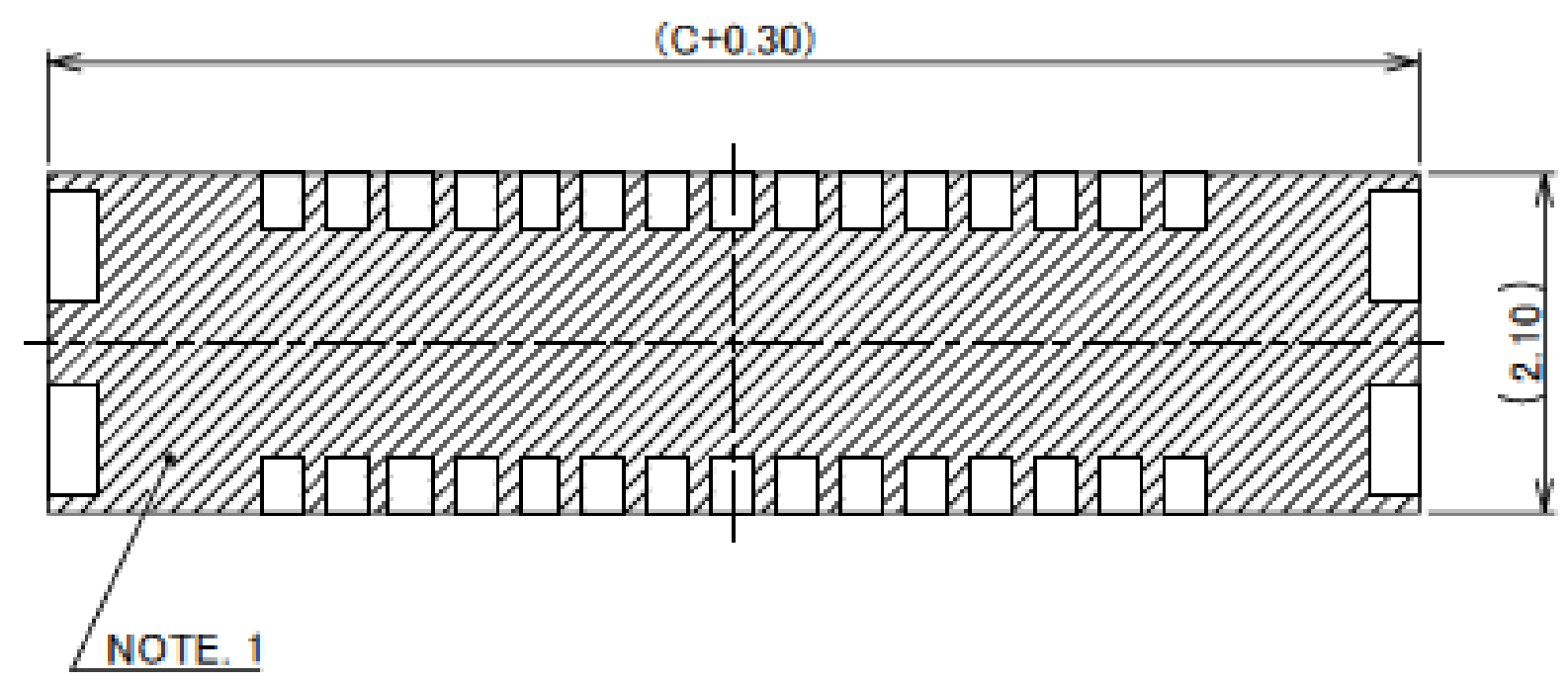
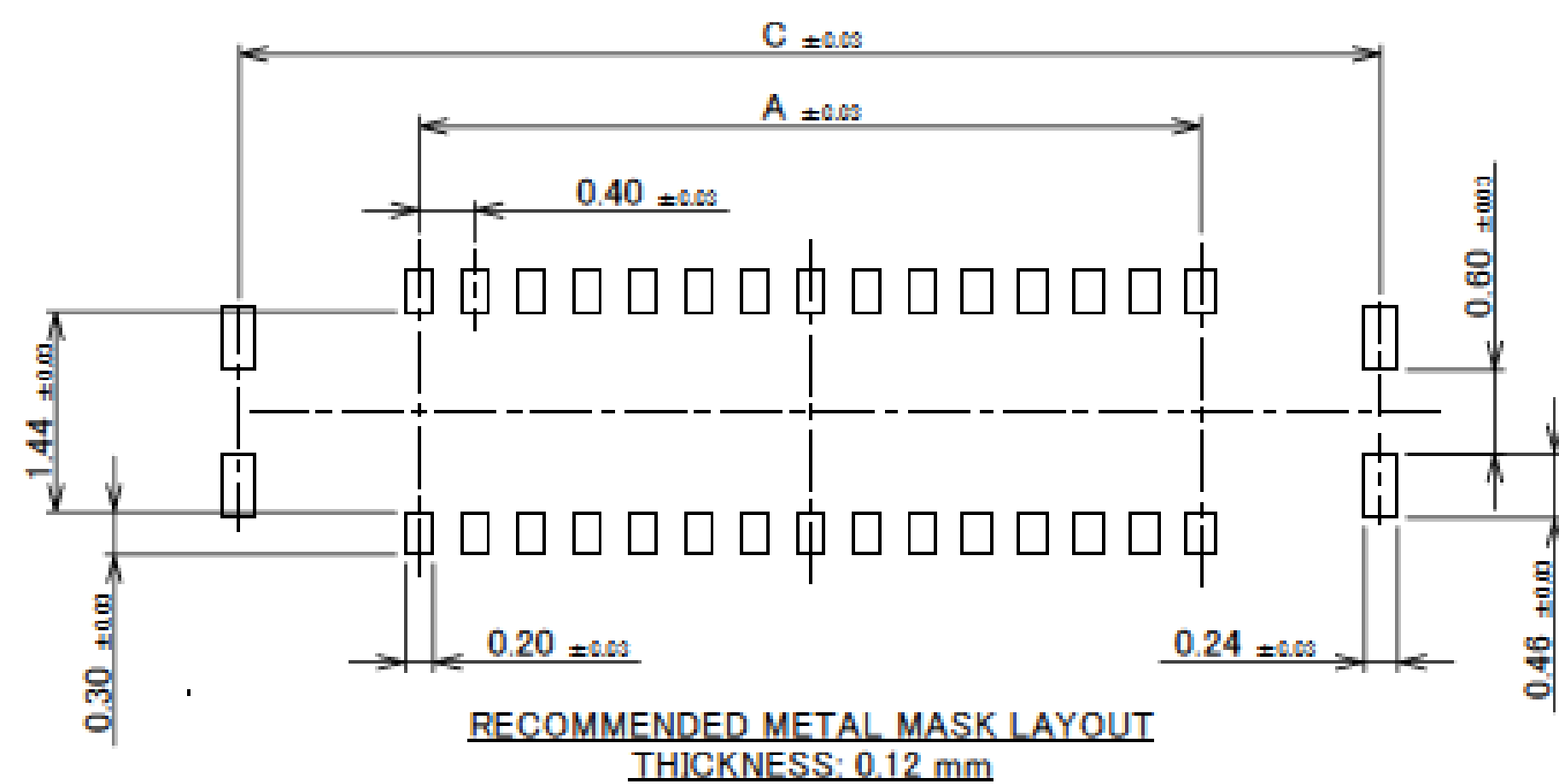
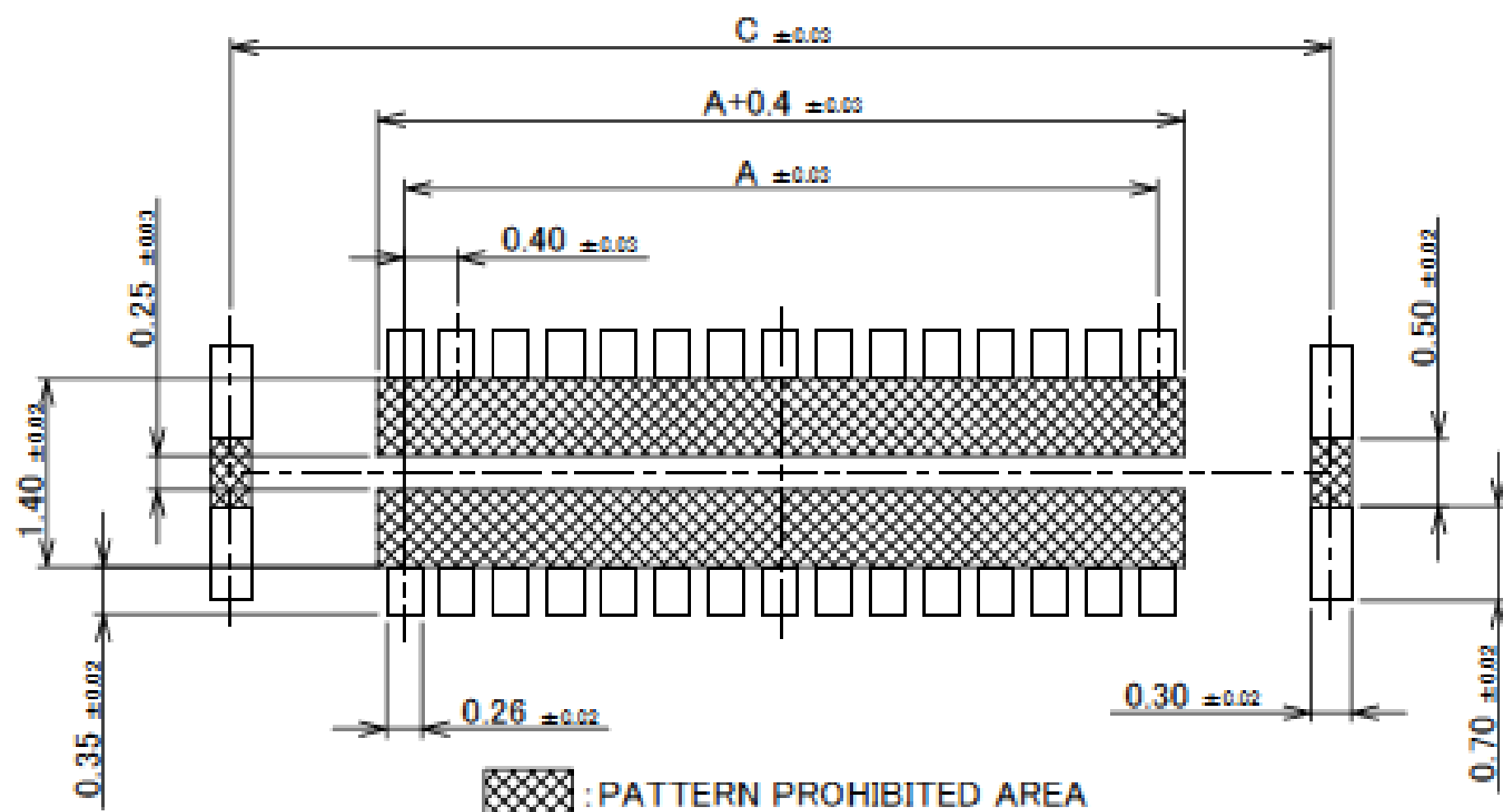
| Recommended P/N | | 20642-0**E | | | |
|-----------------|------|------------|-------|-------|--|
| PART No. | Pos. | A | B | C | |
| 20642-006E | 6 | 0.80 | 3.70 | 3.38 | |
| 20642-010E | 10 | 1.60 | 4.50 | 4.18 | |
| ◆ 20642-014E | 14 | 2.40 | 5.30 | 4.98 | |
| ◆ 20642-016E | 16 | 2.80 | 5.70 | 5.38 | |
| ◆ 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 |

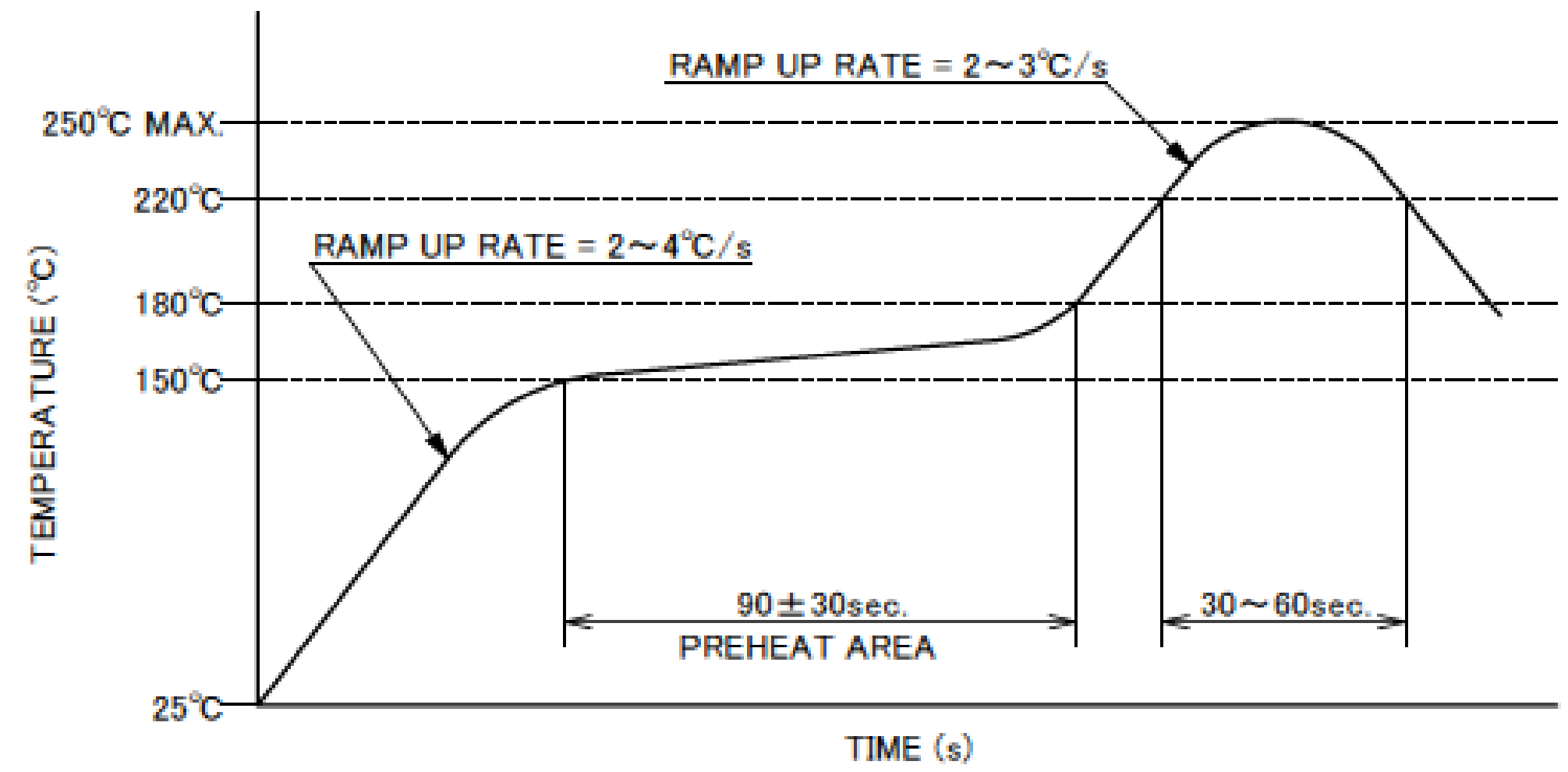
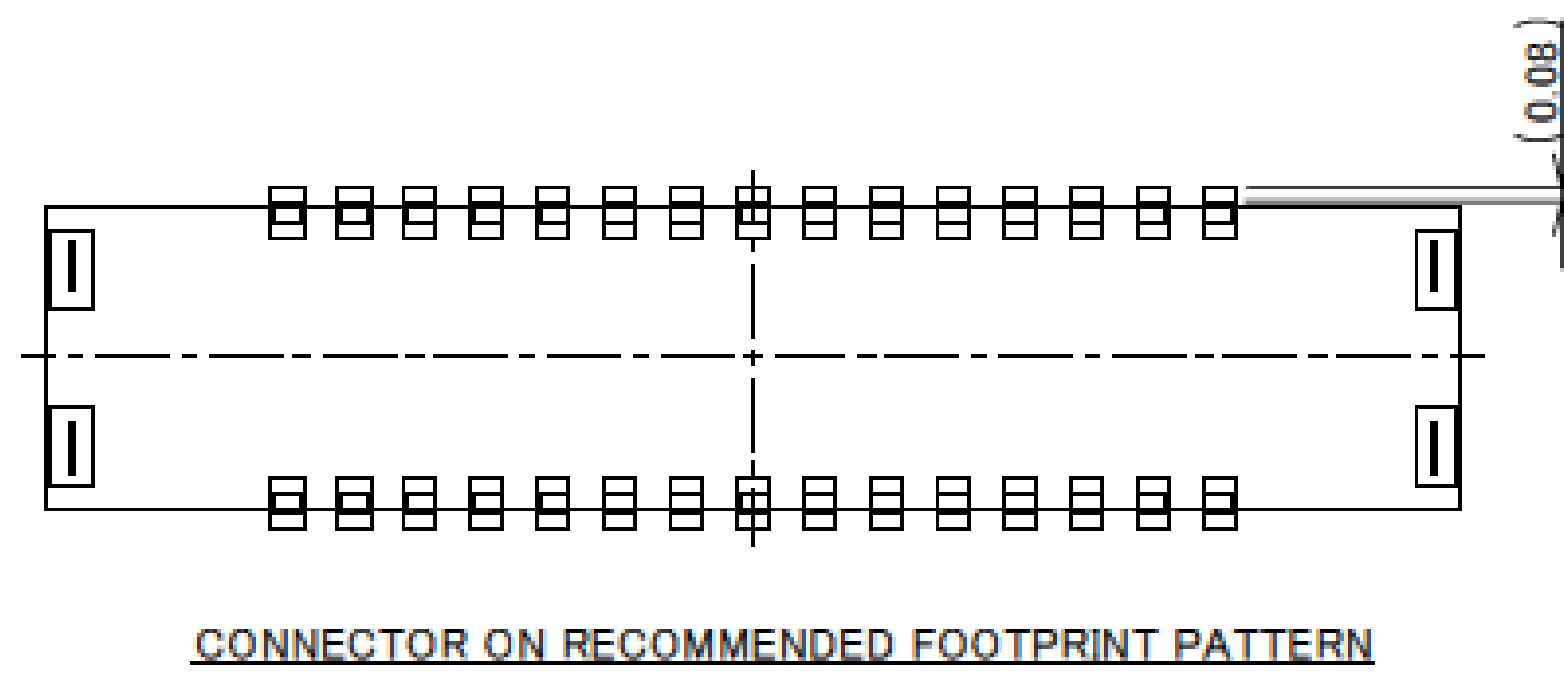
Rev.10



NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.10

Receptacle Assembly



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

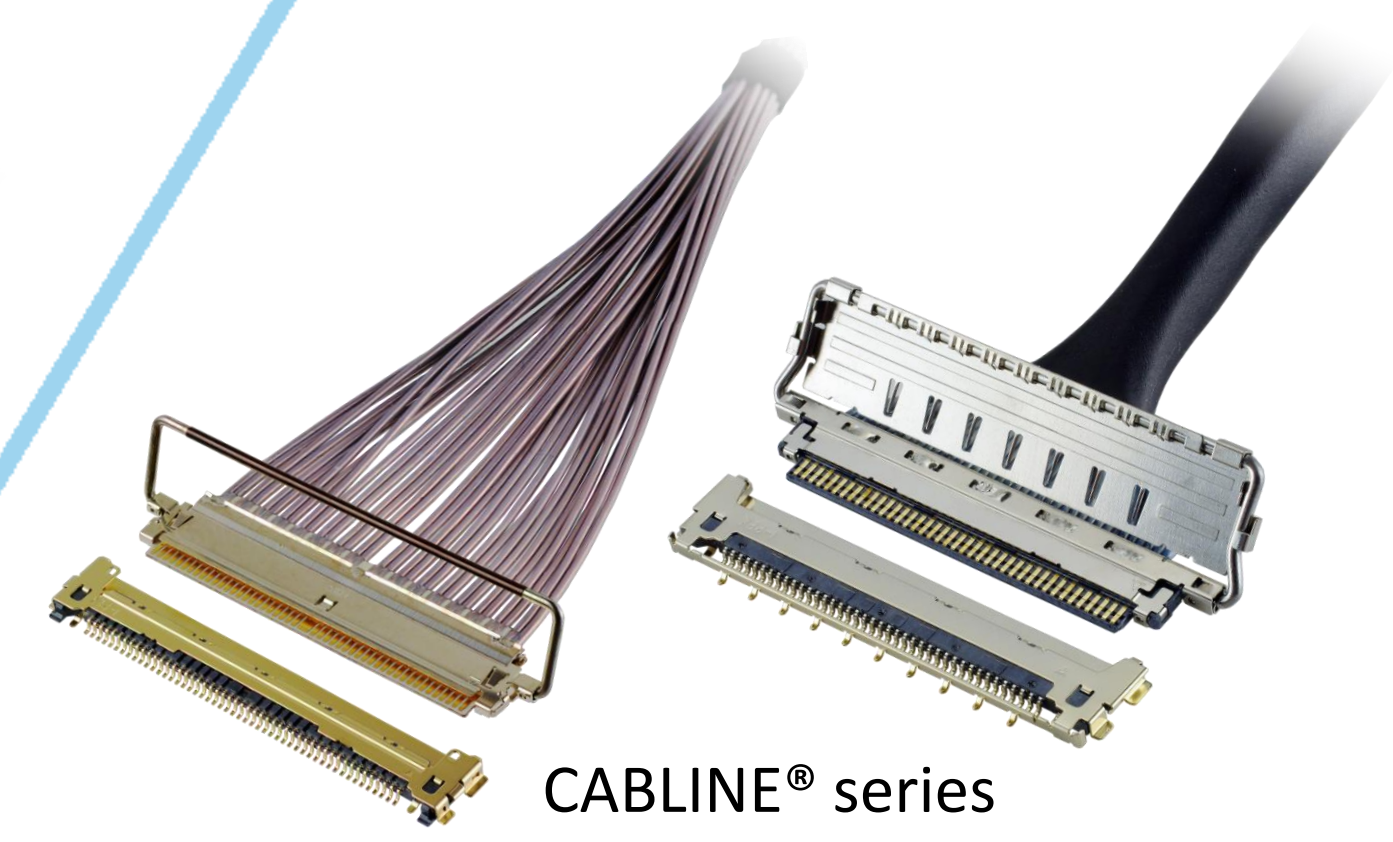
Custom Connectors Available

 RF Connector

MHF® series



Micro-coaxial/Twinax/
Discrete Wire Connector



CABLINE® series



Optical Module

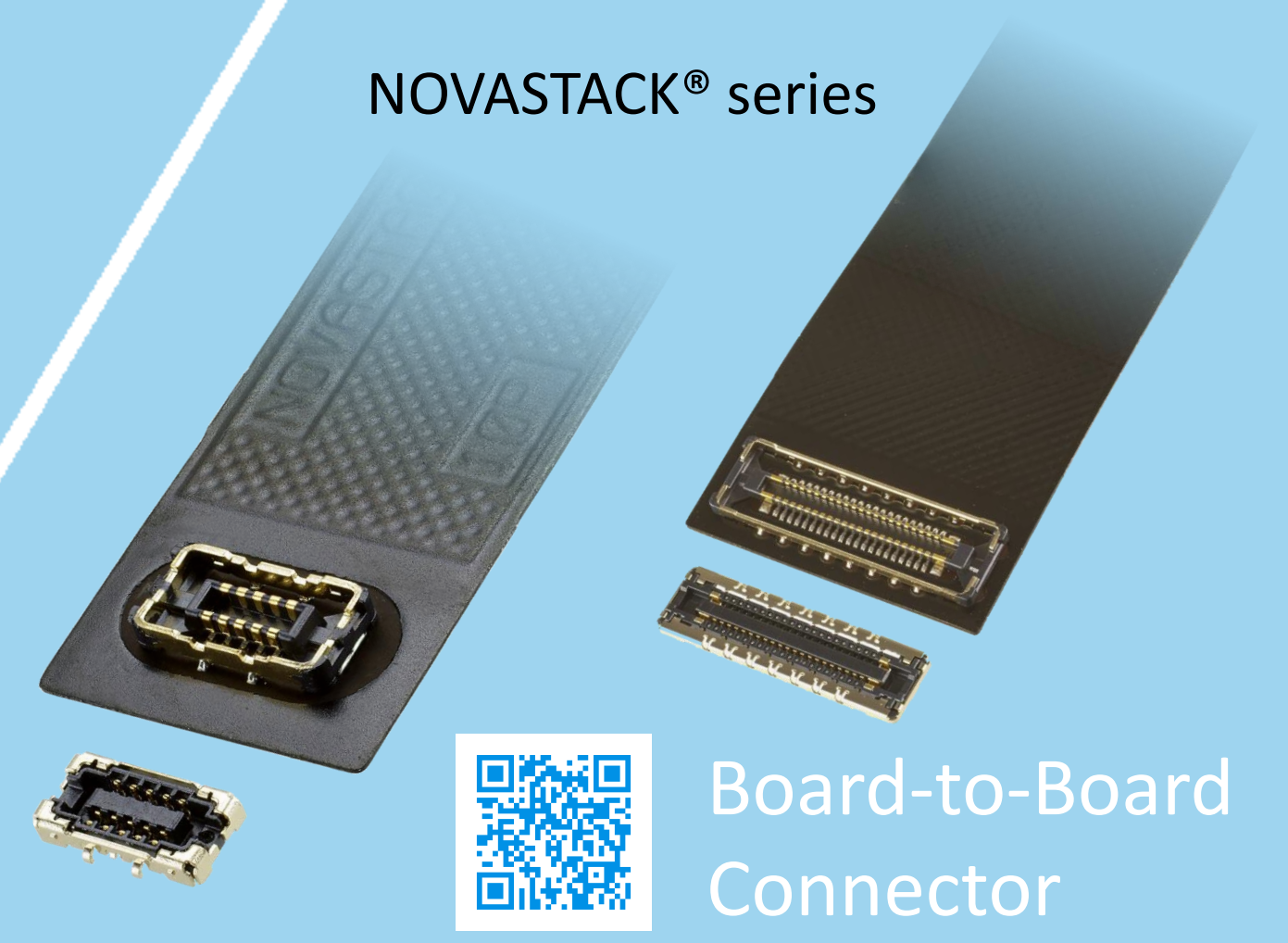
LIGHTPASS® series



NOVASTACK® series



Board-to-Board Connector



Power Connector/
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC Connector



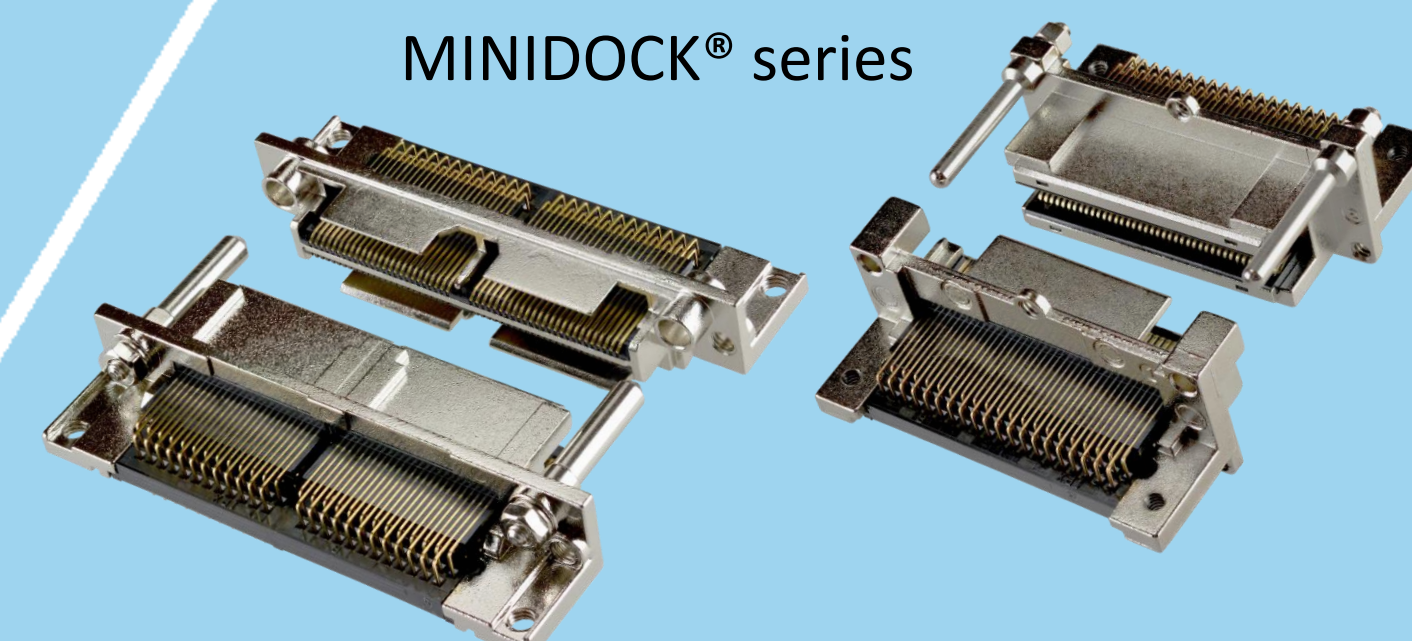
Inquiry



MINIDOCK® series



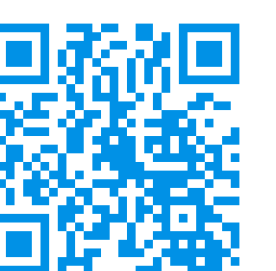
I/O Connector



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