

# NOVASTACK® 35-HDH

高度1.5 mm, 0.35 mm 间距, 全屏蔽式, 高背设计,  
高速 20 GHz ( $\approx$ 40 Gbps)/通道传输

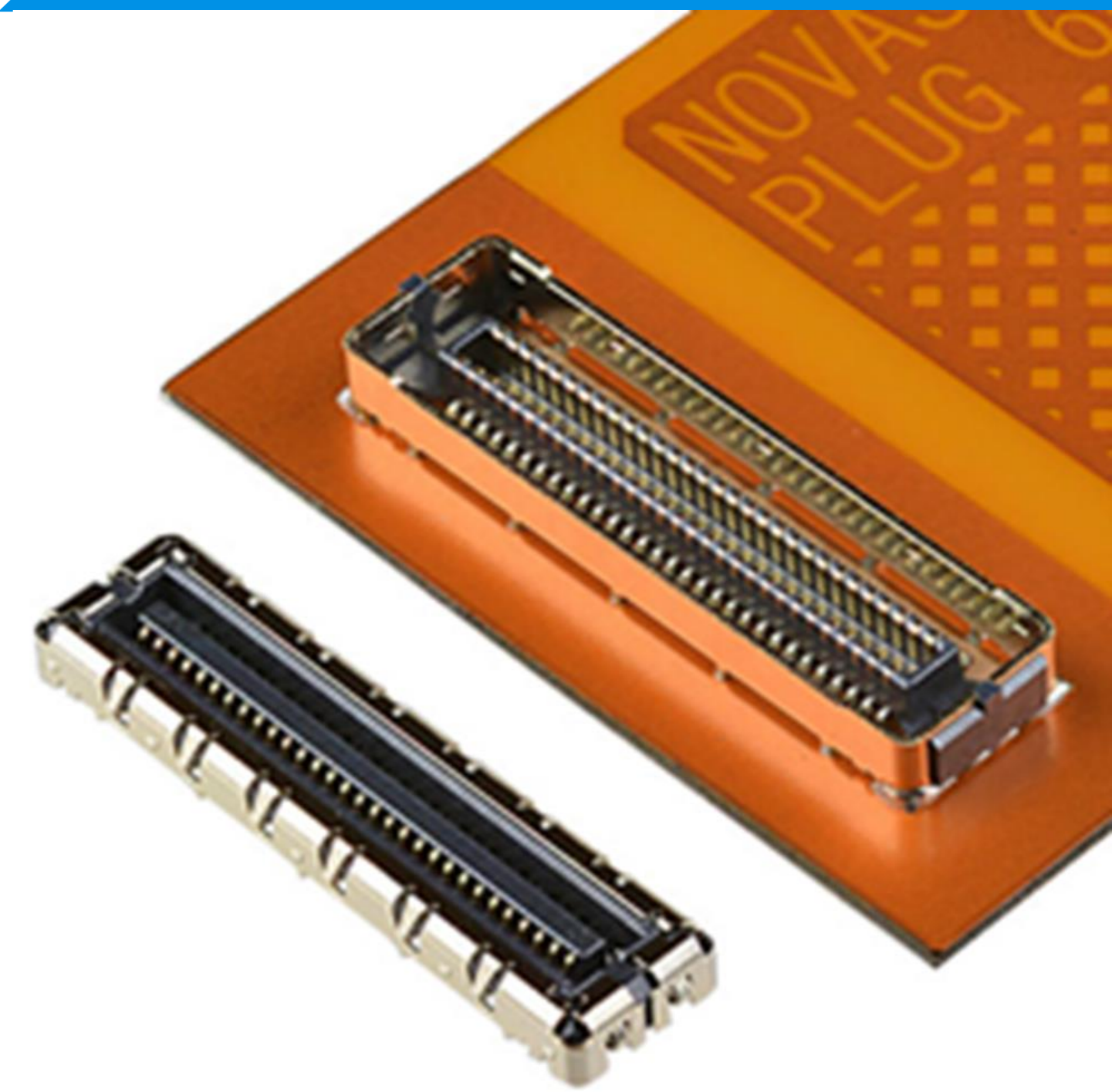
## Product Specifications:

Board Pitch (mm)	0.35	
Wiping Length (mm)	0.33	
Mated Size (mm)	Height	1.5 +/- 0.10
	Width	3.3+(0.35*?p/2)
	Depth	3.64
Current Rating	Signal	0.5A/pin (12.0A Max. (Total))
	Power	-
Pin Counts	Range	10 - 70
	Available	60, 70

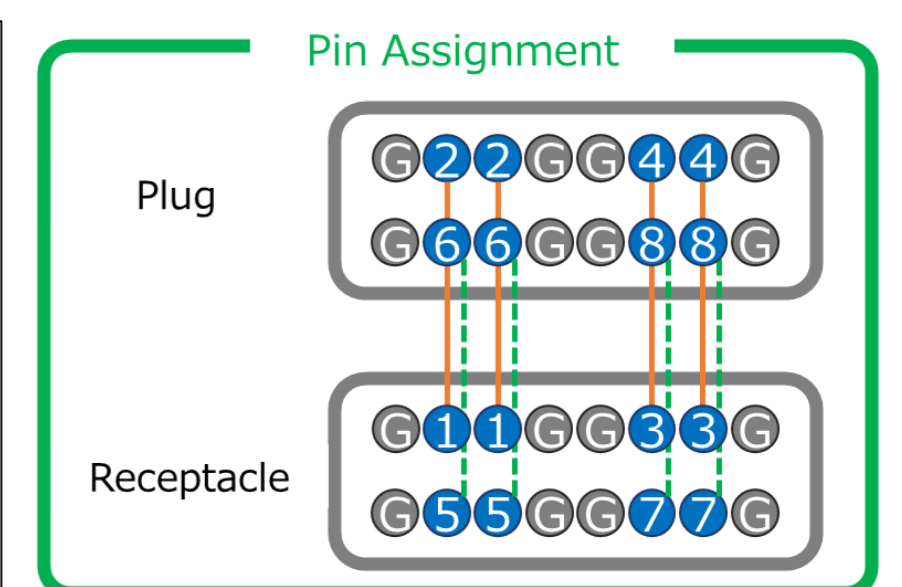
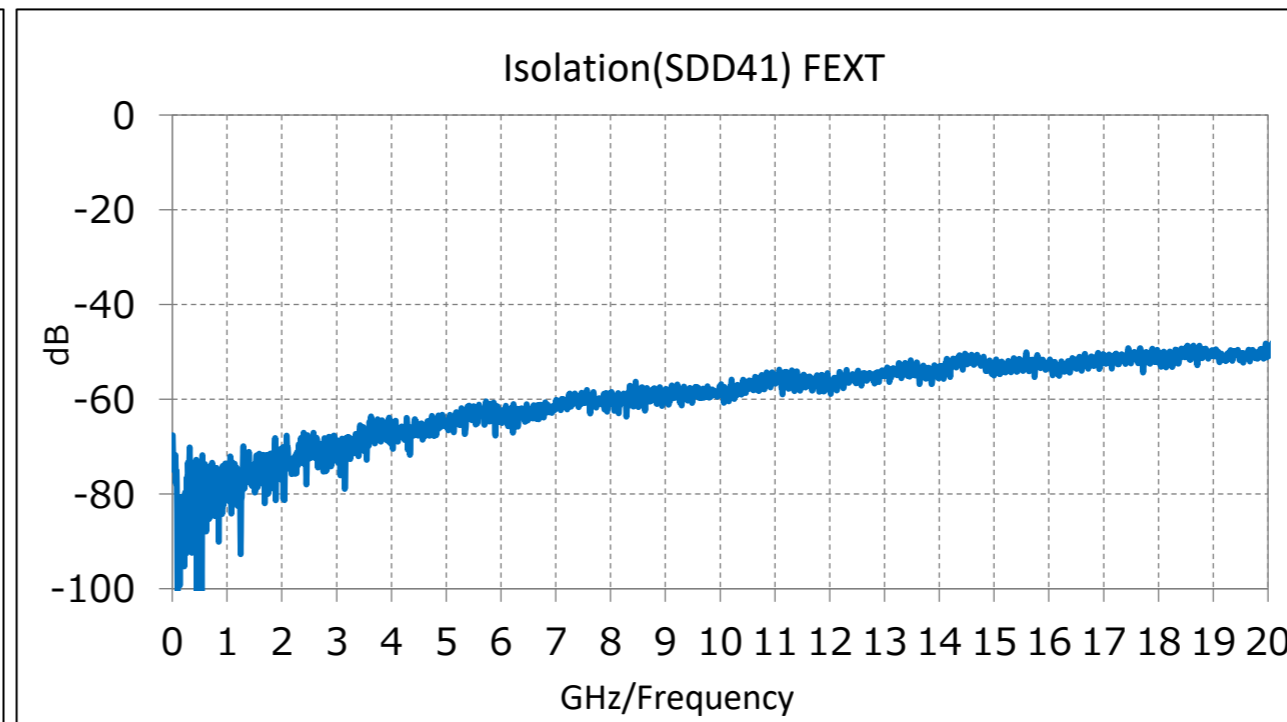
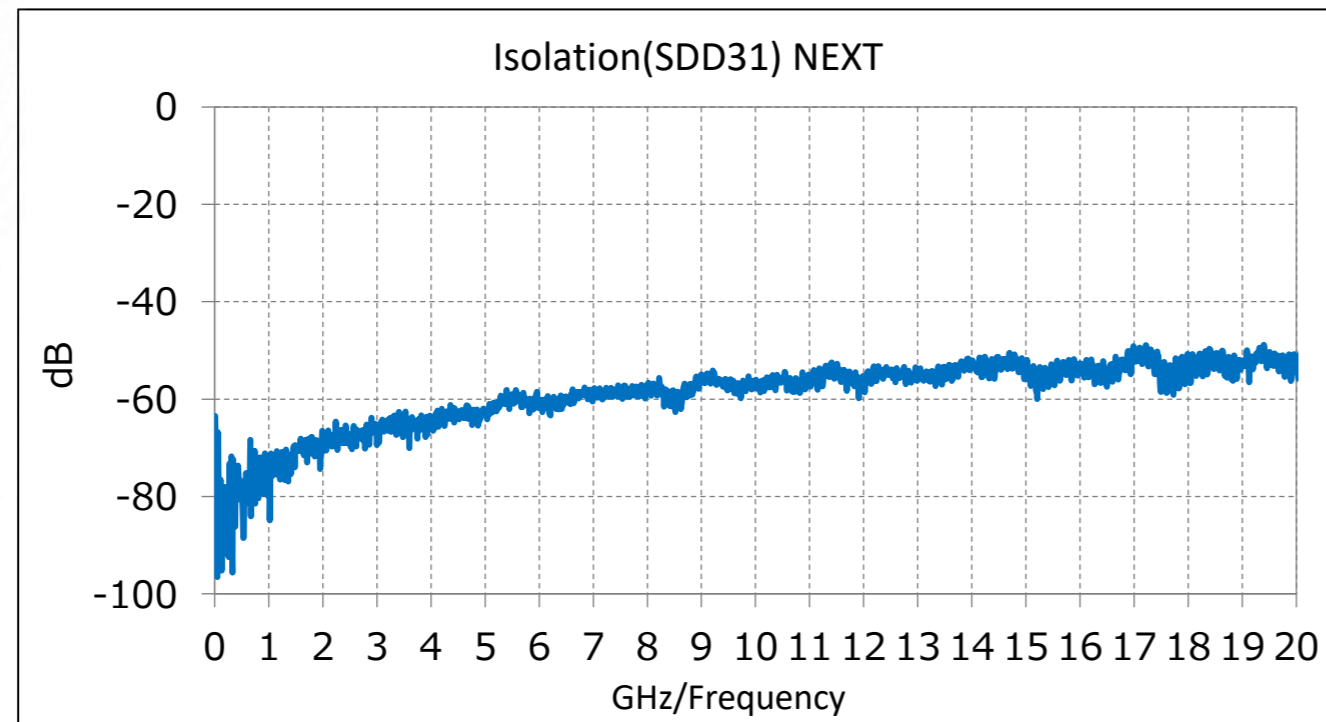
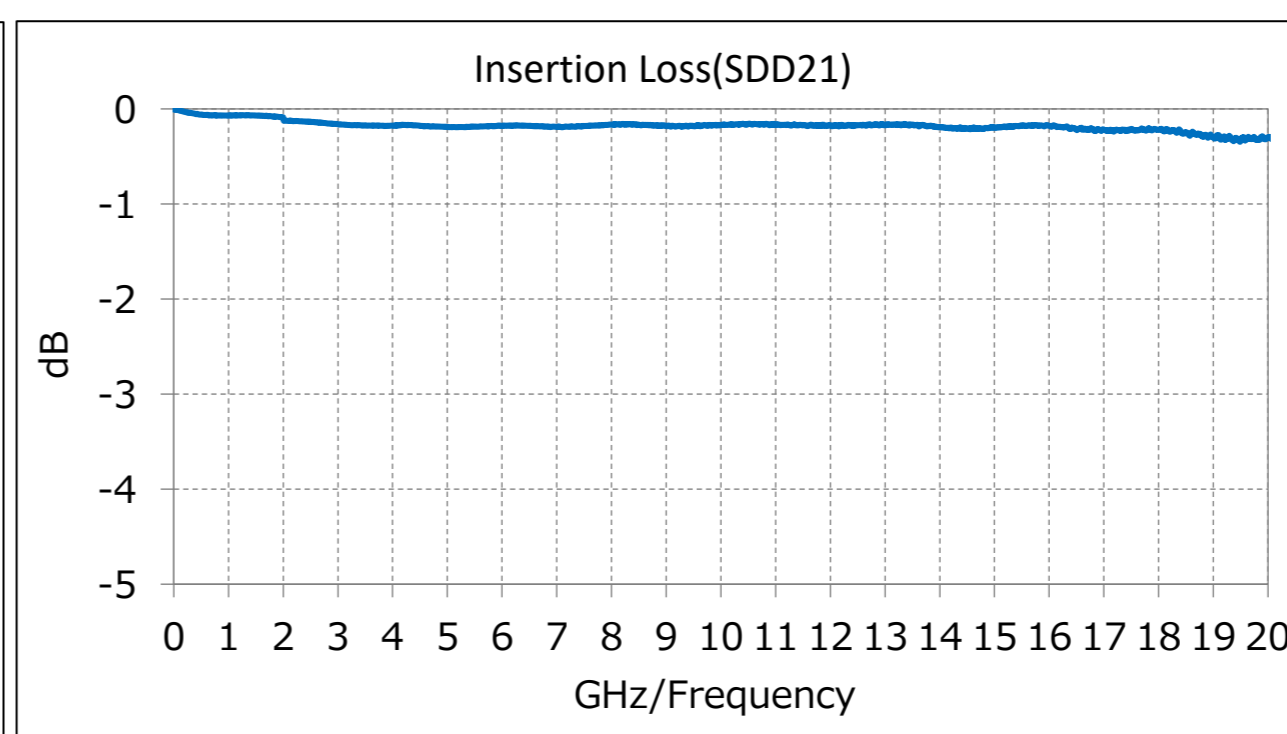
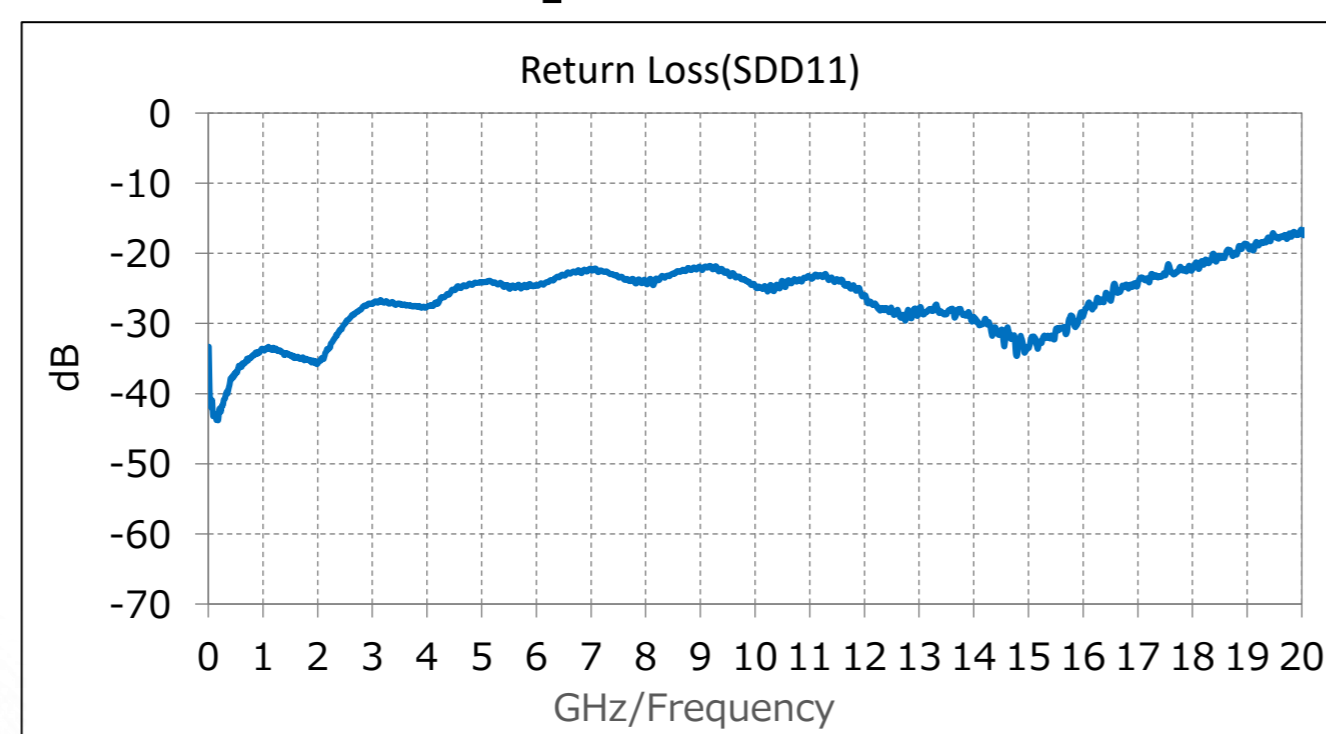
## Applicable Standards (Reference Only):

USB4 (20 Gbps/lane); USB 3.1 Gen 2 (10 Gbps); eDP HBR 3 (8.1 Gbps); eDP HBR 2 (5.4 Gbps); HDMI 2.0 (6 Gbps); V-By-One HS 1.4 (4 Gbps); MiPi standards

\* 如需了解未列出或不在范围内的pin 数, 请联系我们。

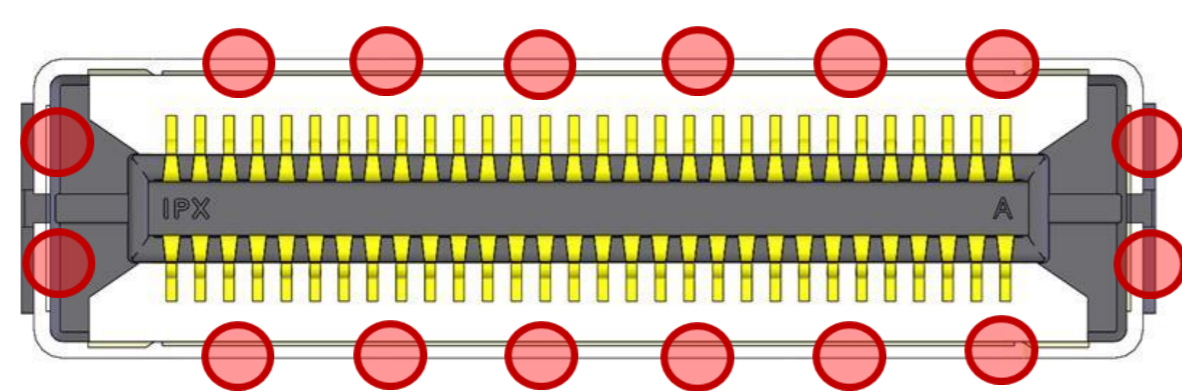
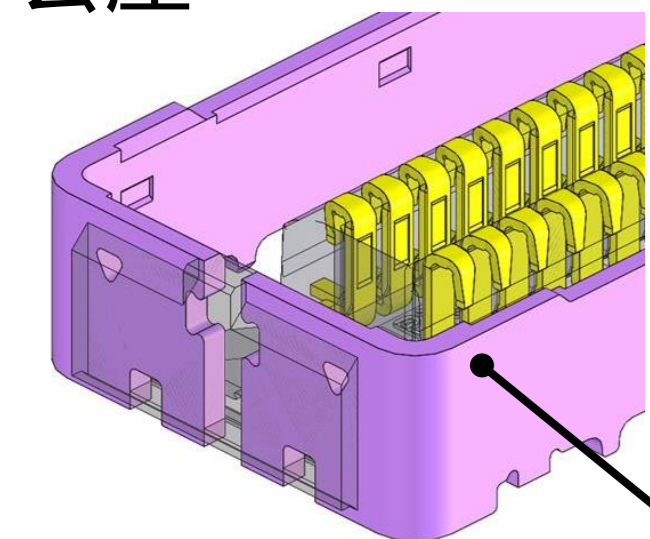


## 支持 20 GHz ( $\approx$ 40 Gbps) /通道传输, 是最新高速信号的理想选择



## ZenShield® 全屏蔽和多点接地设计, 可防止 EMI 泄漏

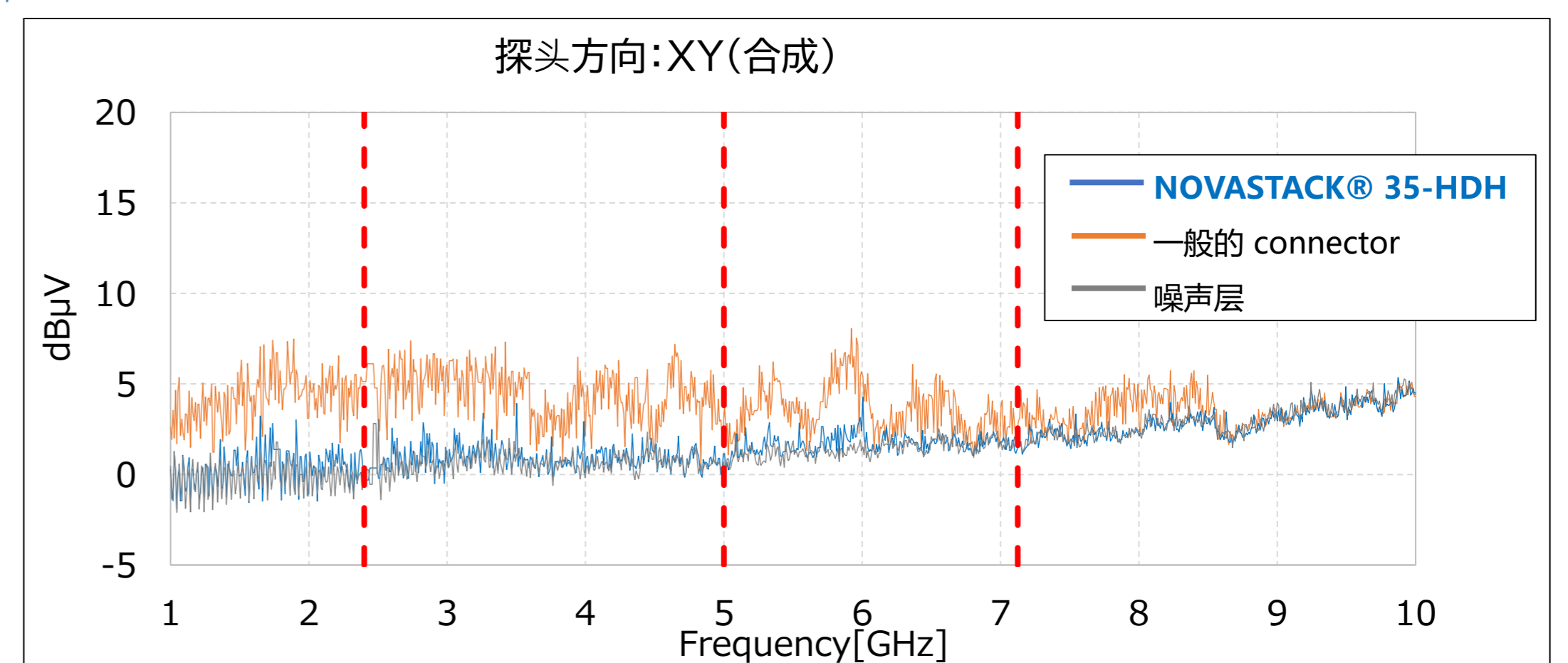
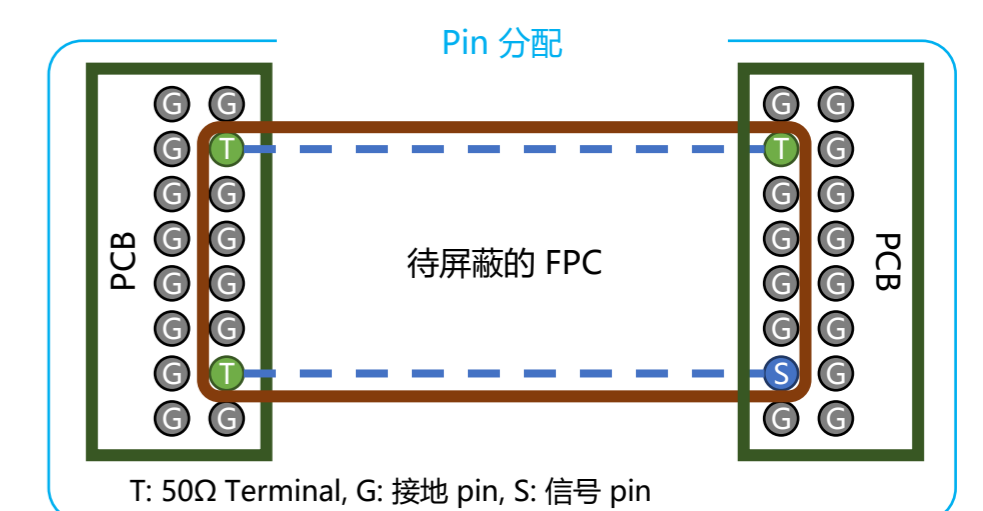
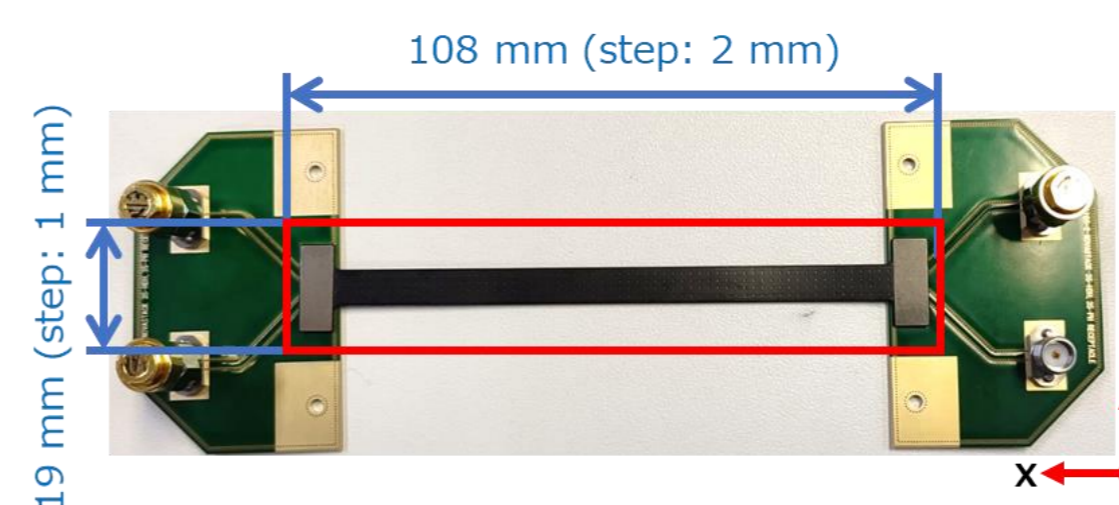
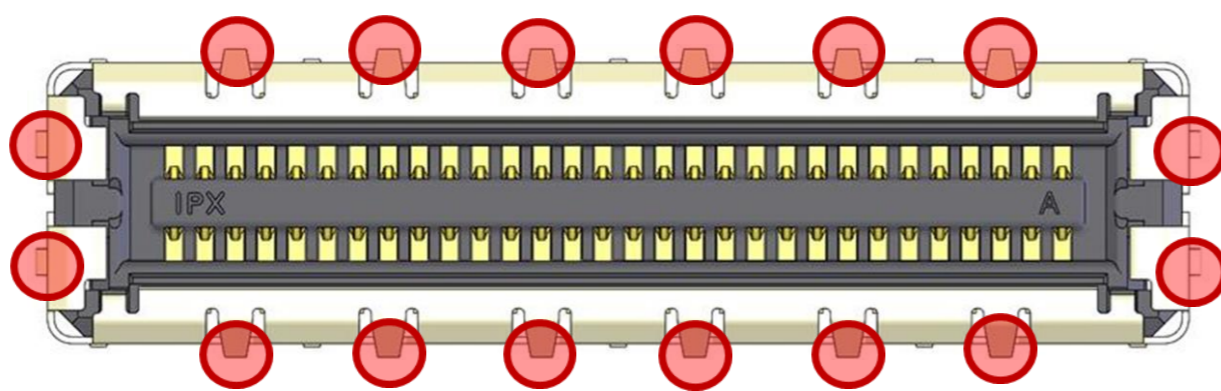
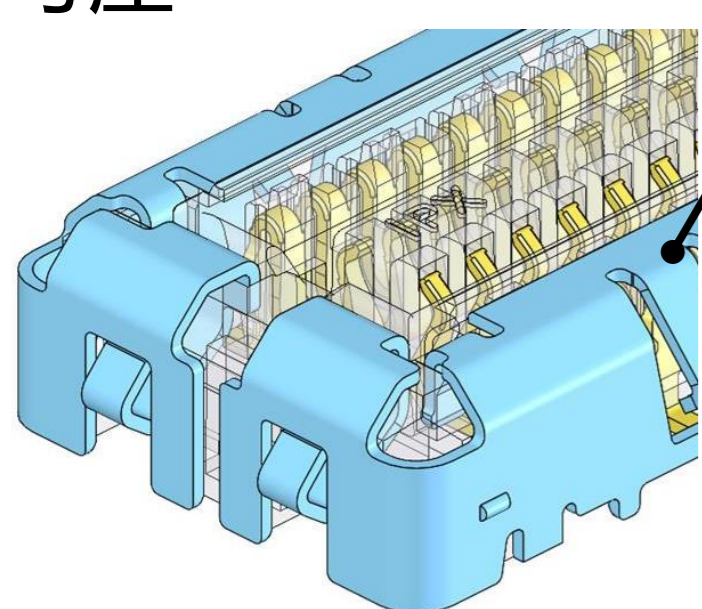
公座



金属外壳

●: 接地 SMT 点位

母座



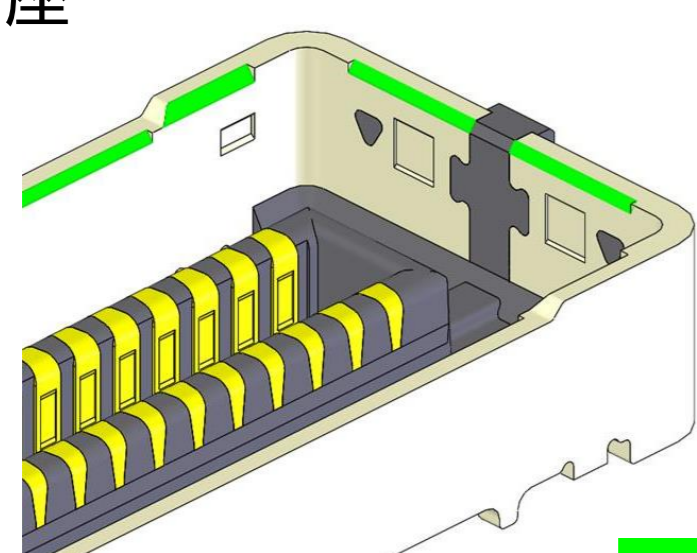
电磁干扰测量结果

## 高背连接器设计, 具有出色的配接可加工性

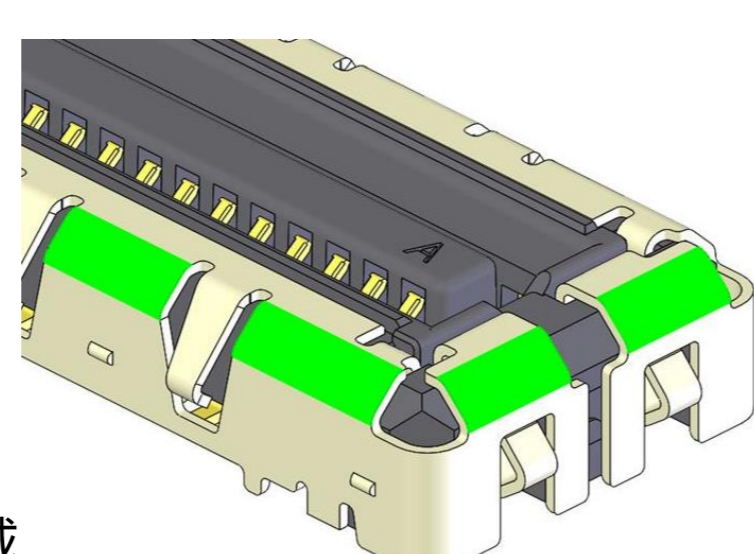
导轨可实现正确位置的嵌合

较长的嵌合长度可大大降低嵌合时发生倾斜的可能性

公座

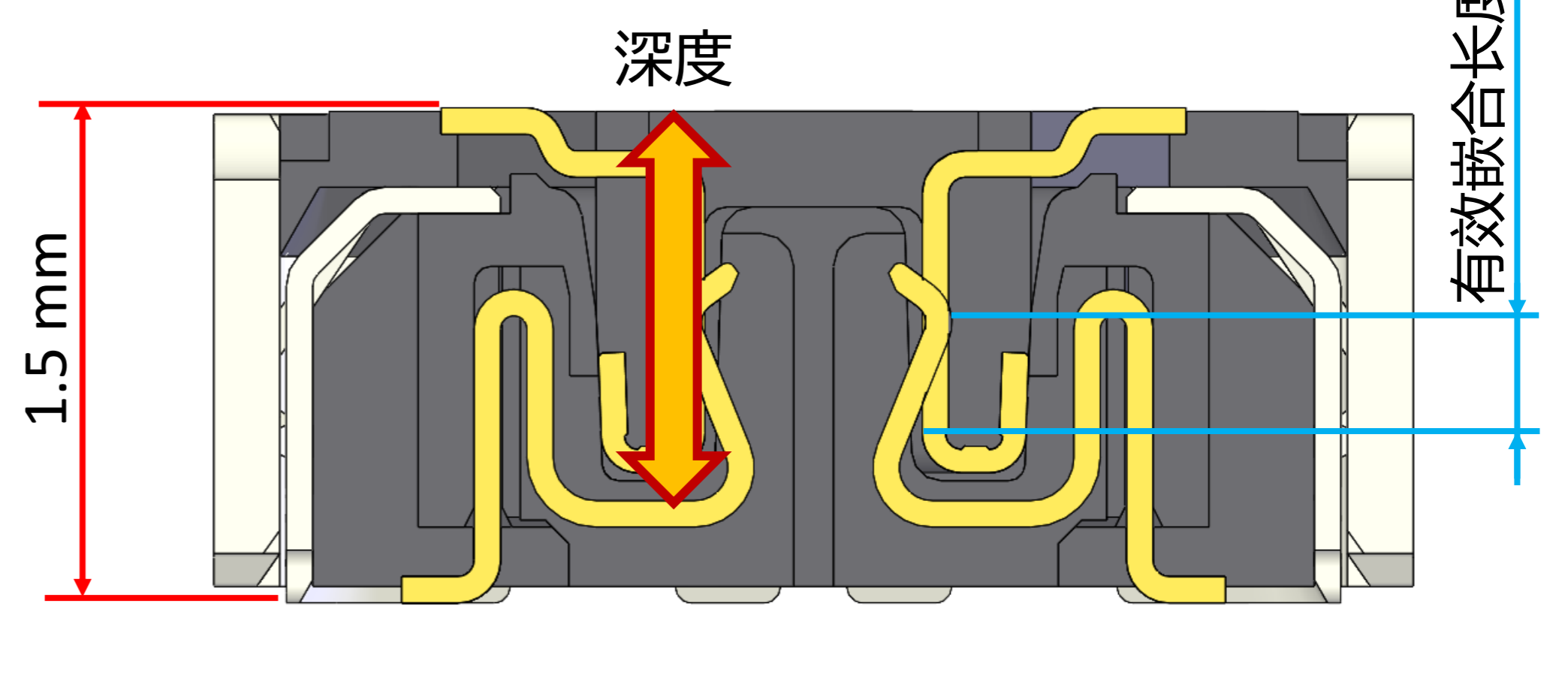
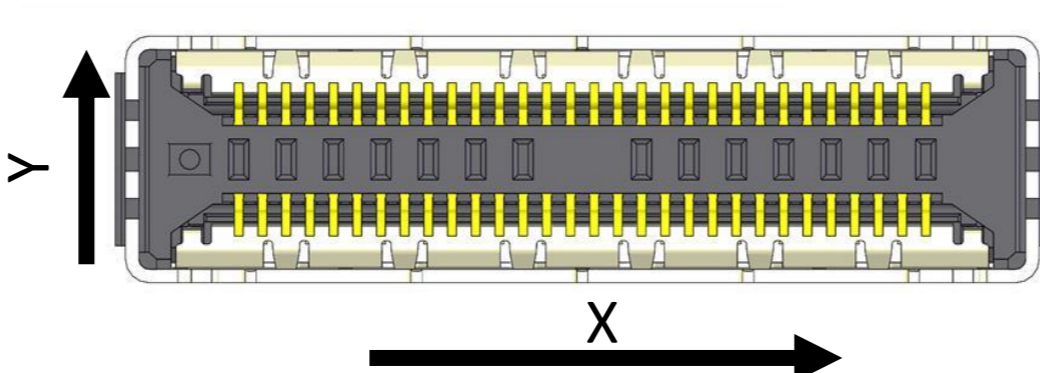


母座



嵌合导轨区域  
Unit: mm

方向	到向量
X	0.375
Y	0.390

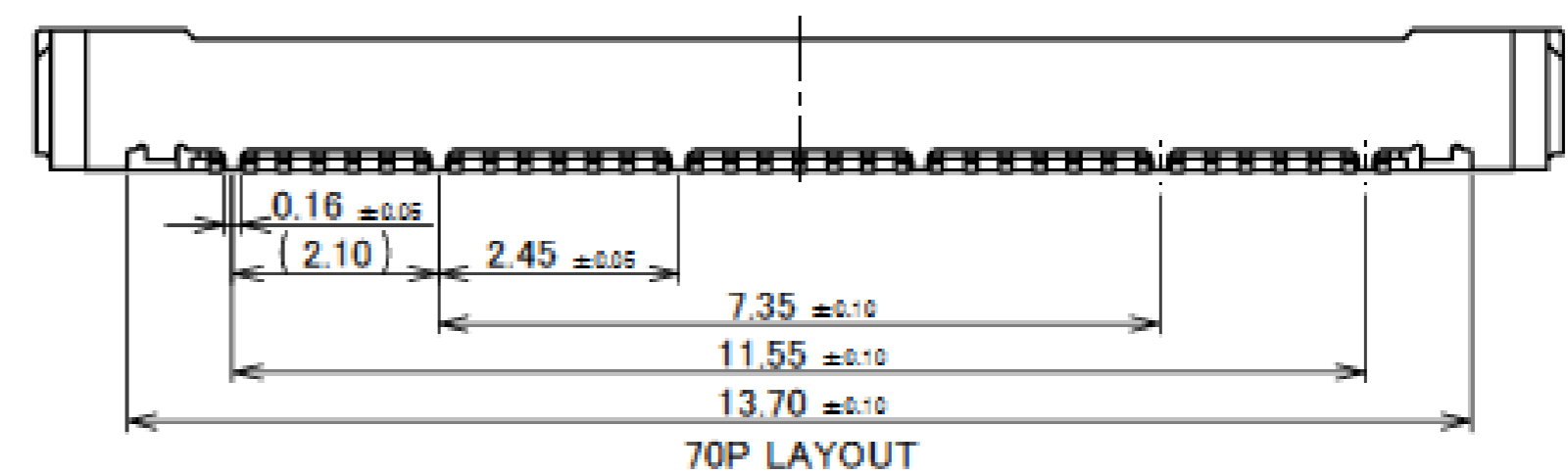
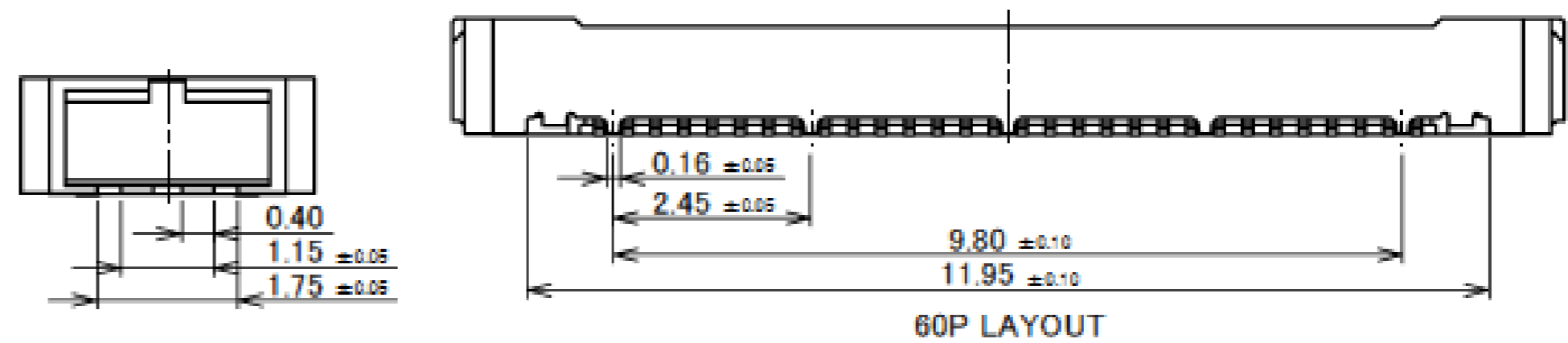
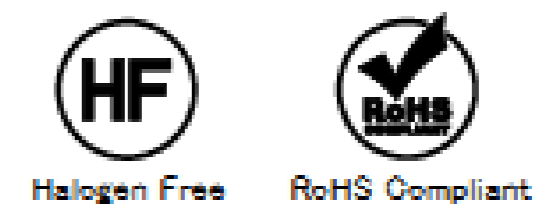
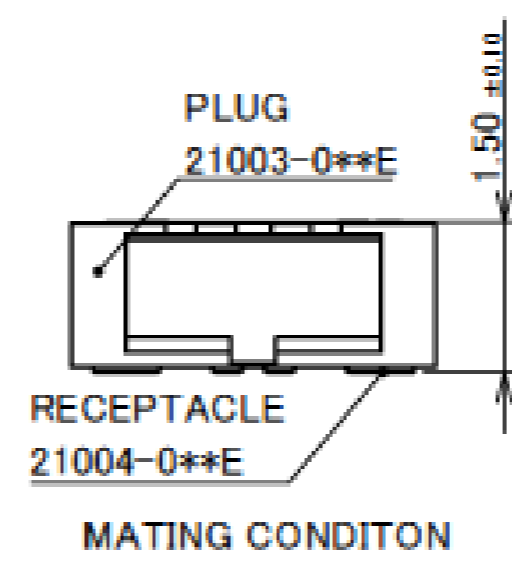
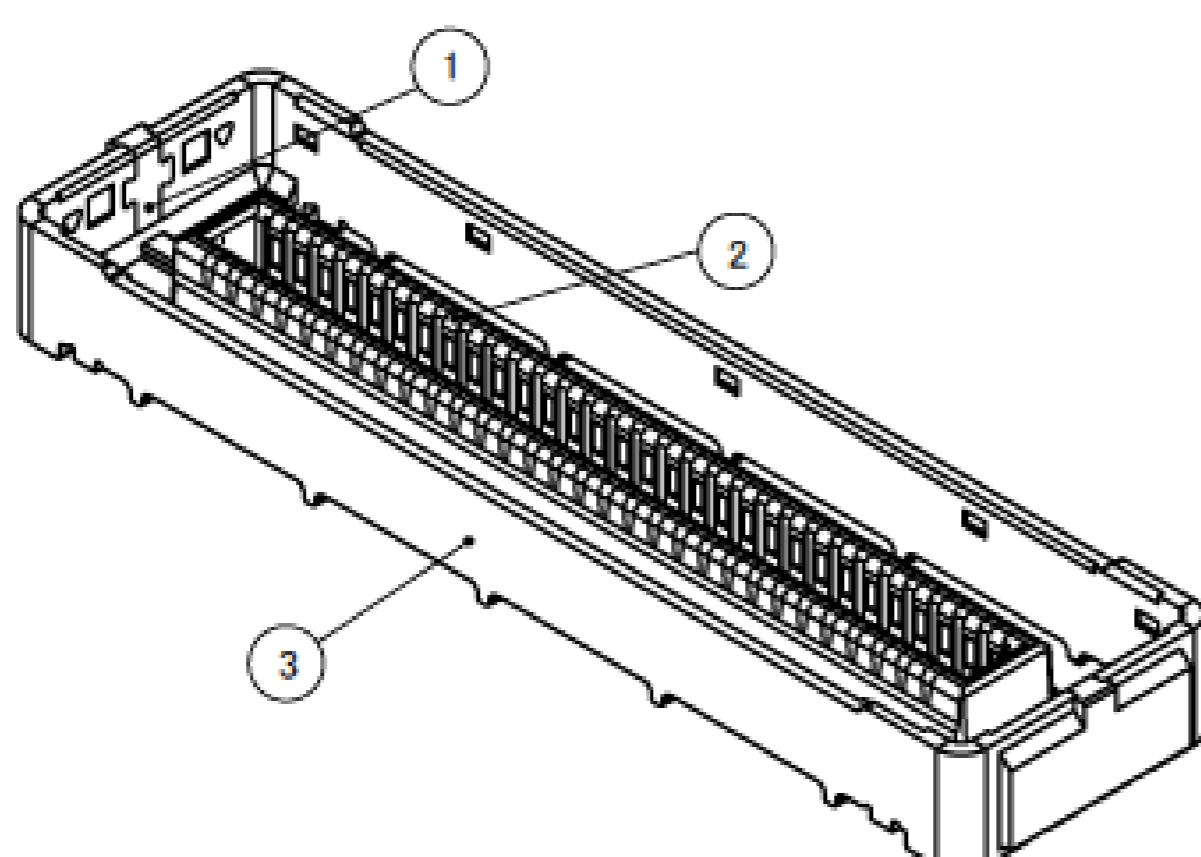
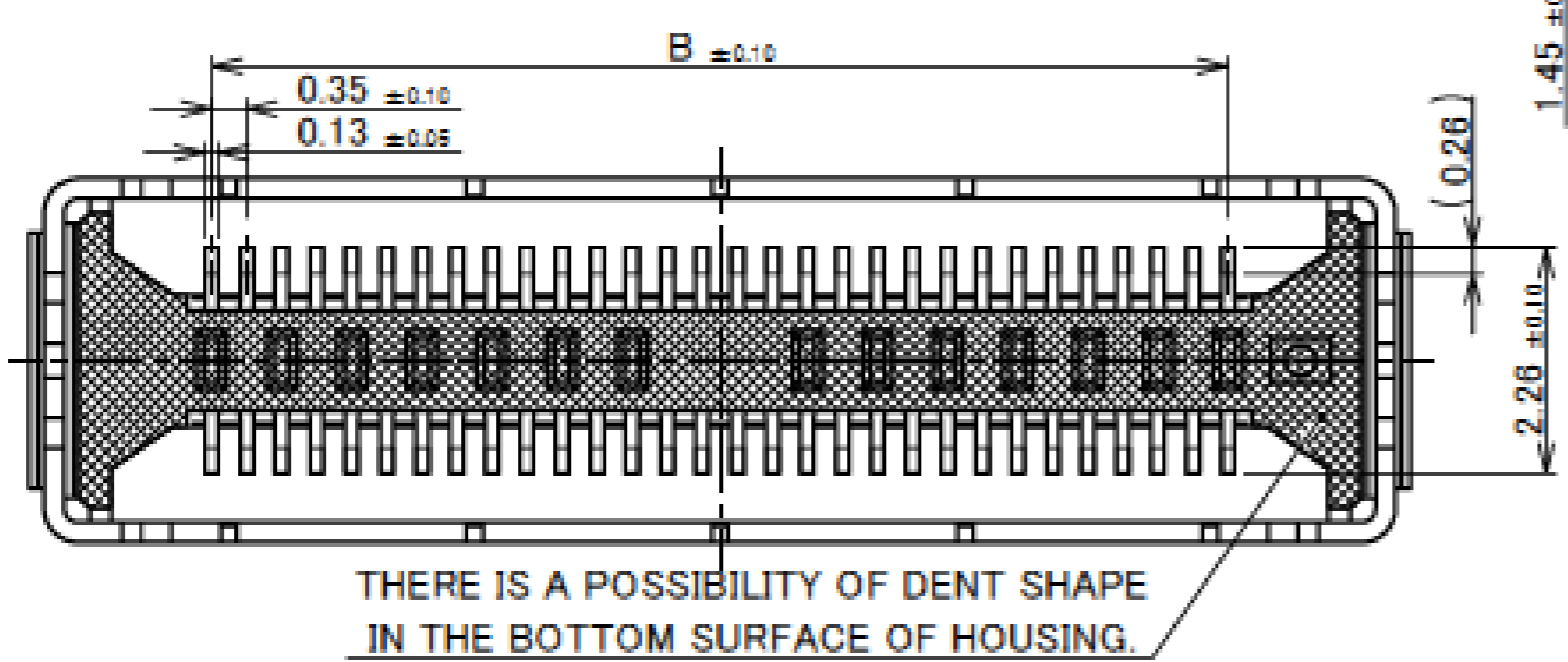
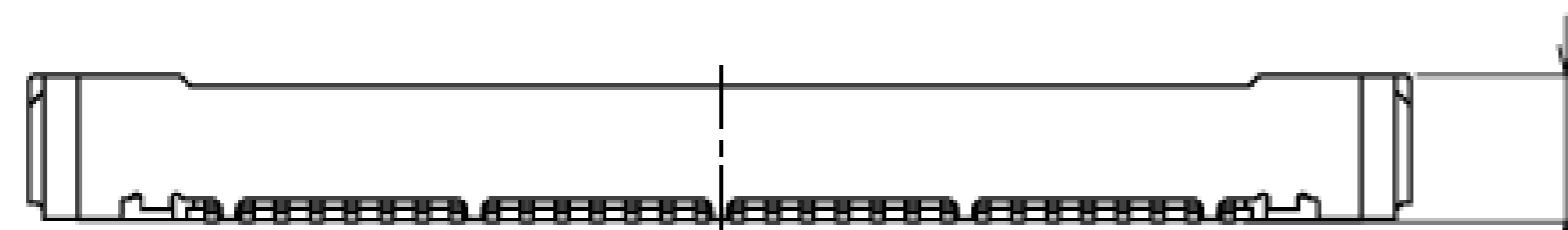
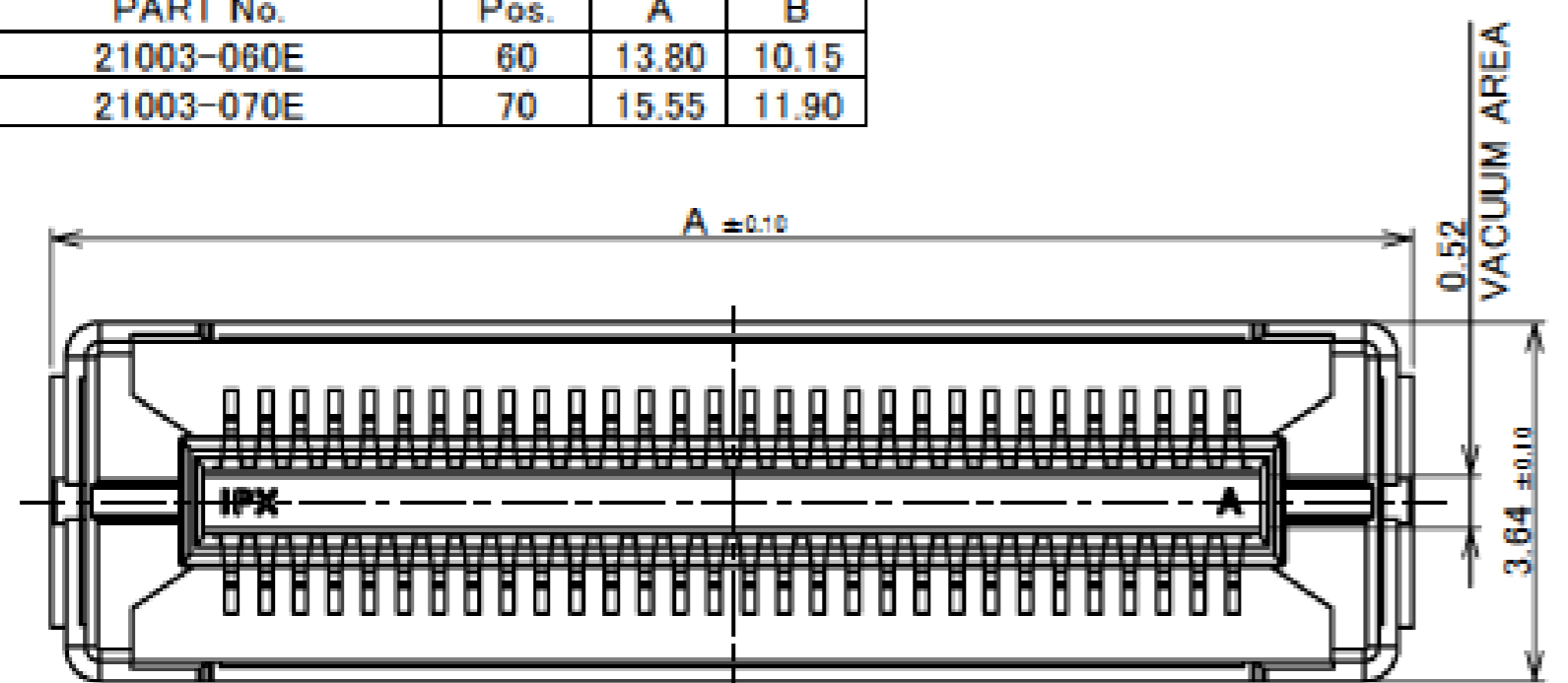




# Component Parts Detail

## Plug Assembly

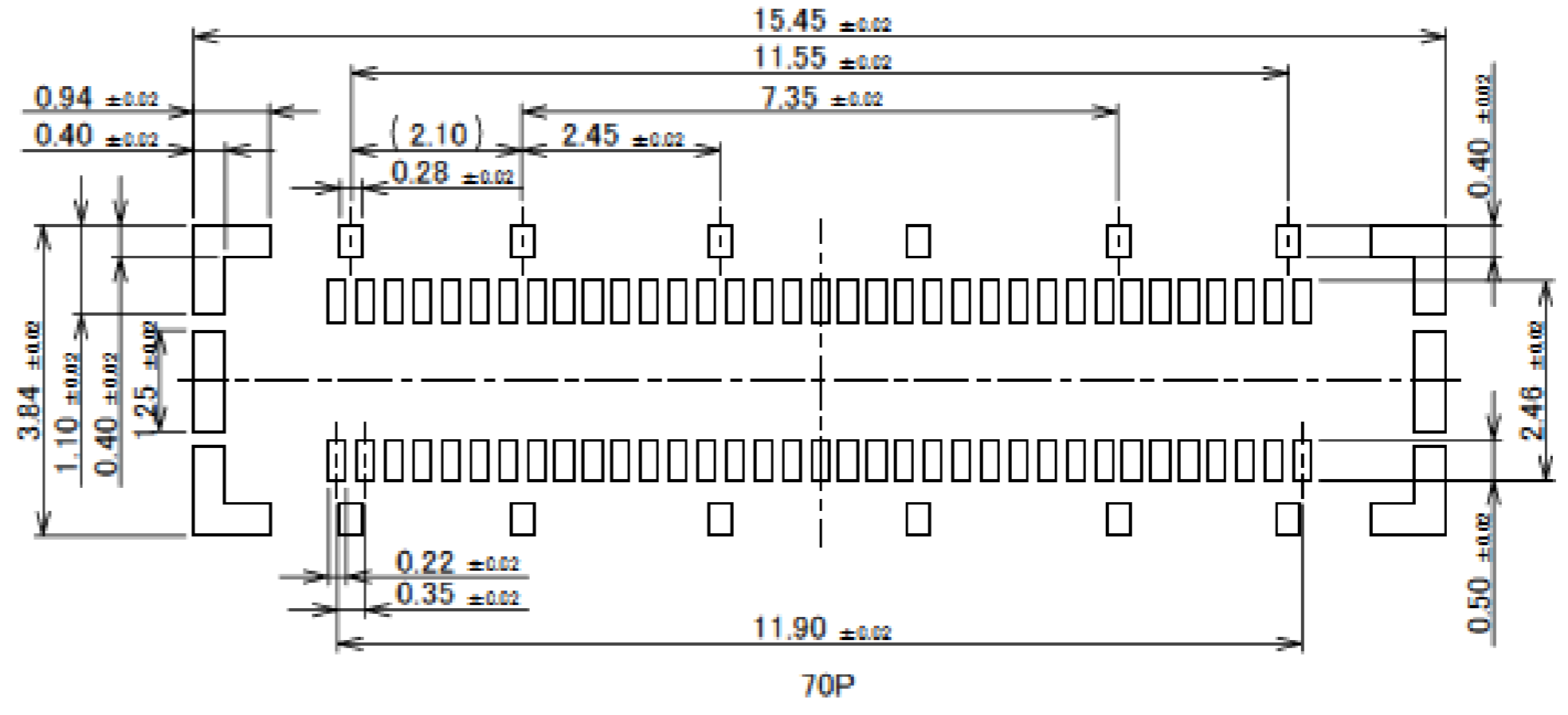
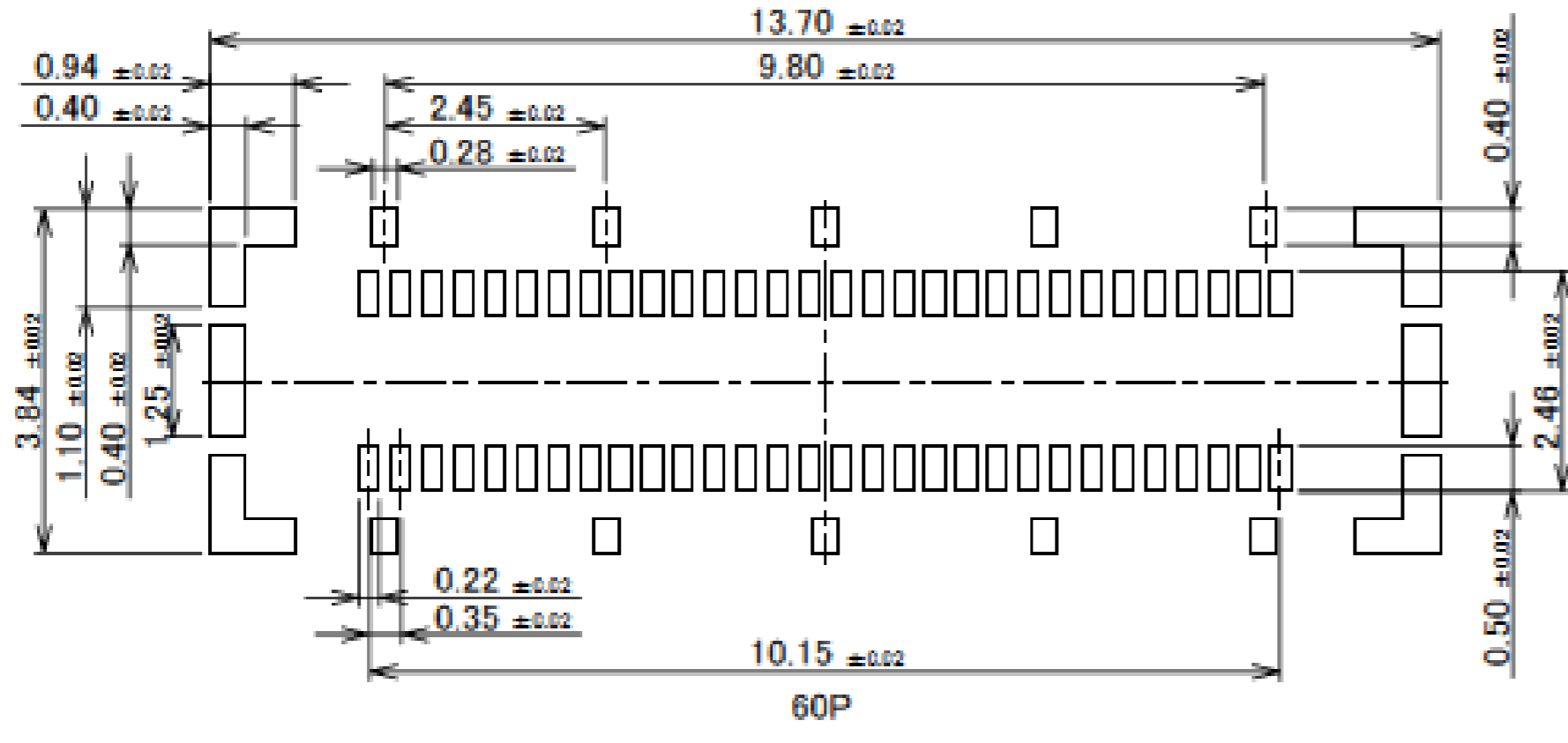
Recommended P/N		21003-0**E		
PART No.	Pos.	A	B	
21003-060E	60	13.80	10.15	
21003-070E	70	15.55	11.90	



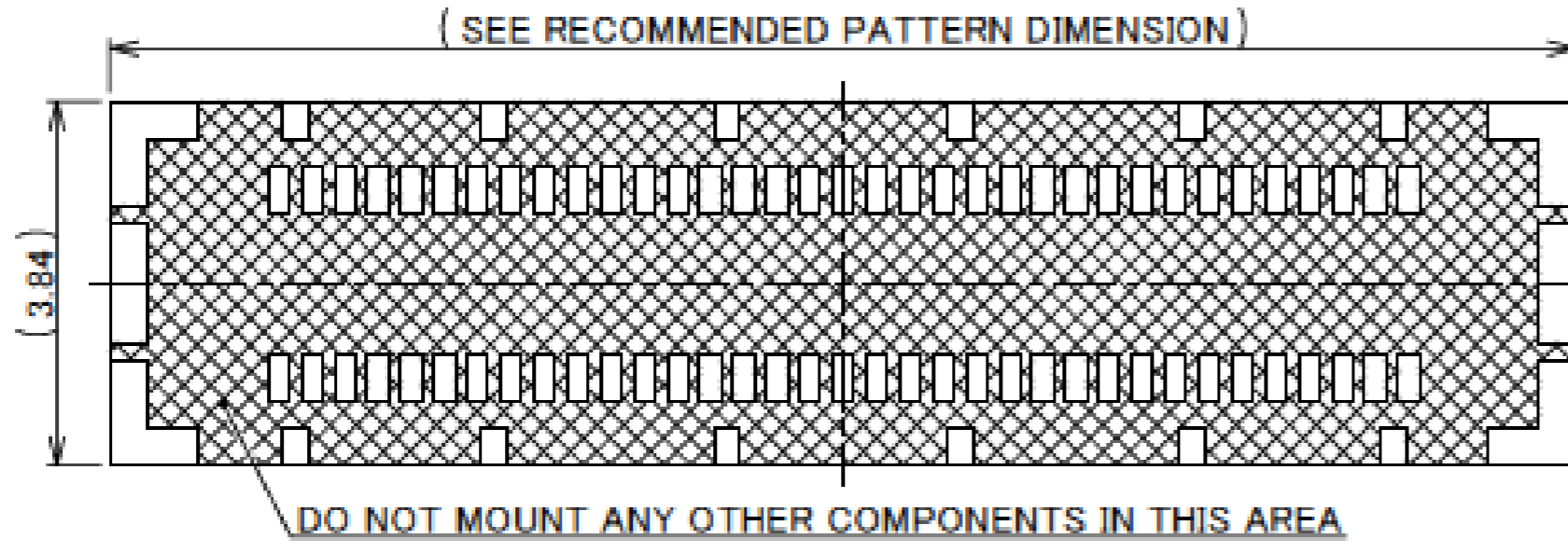
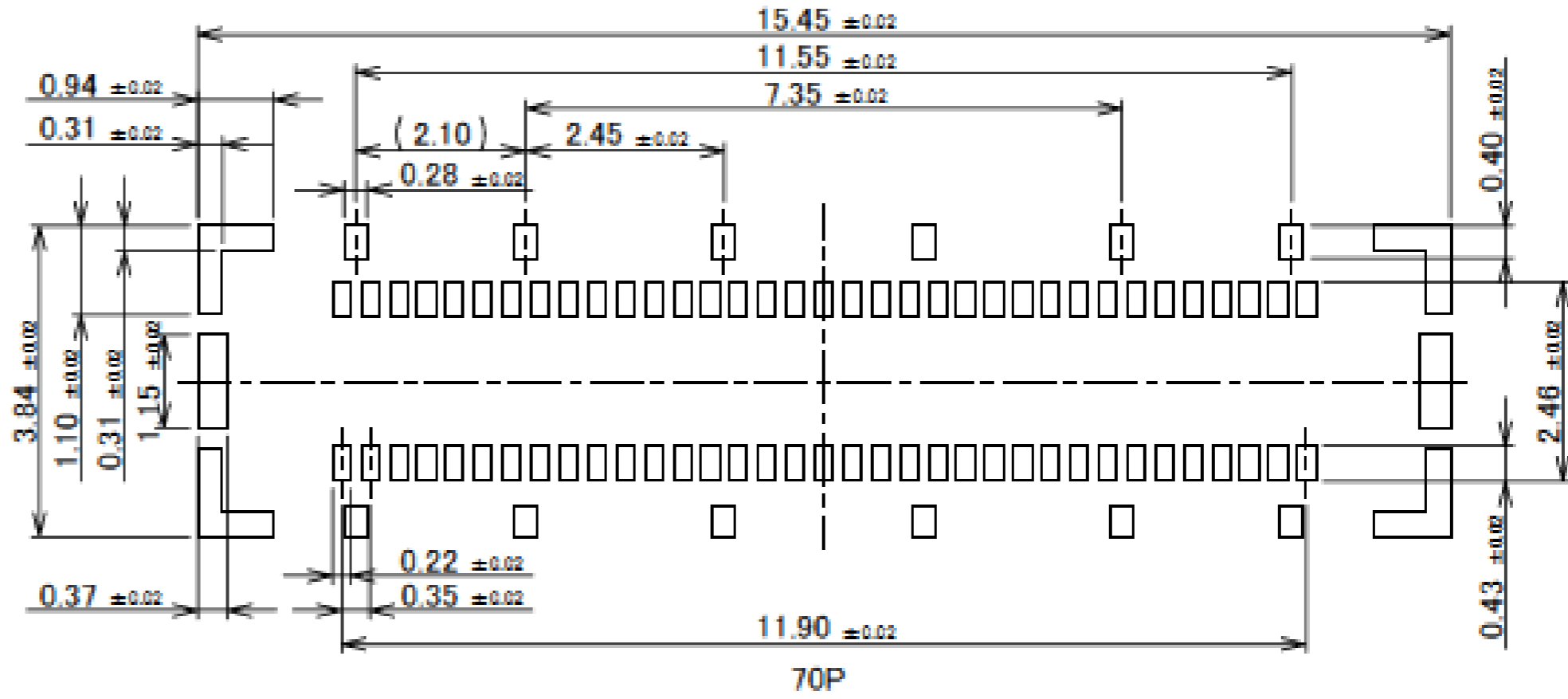
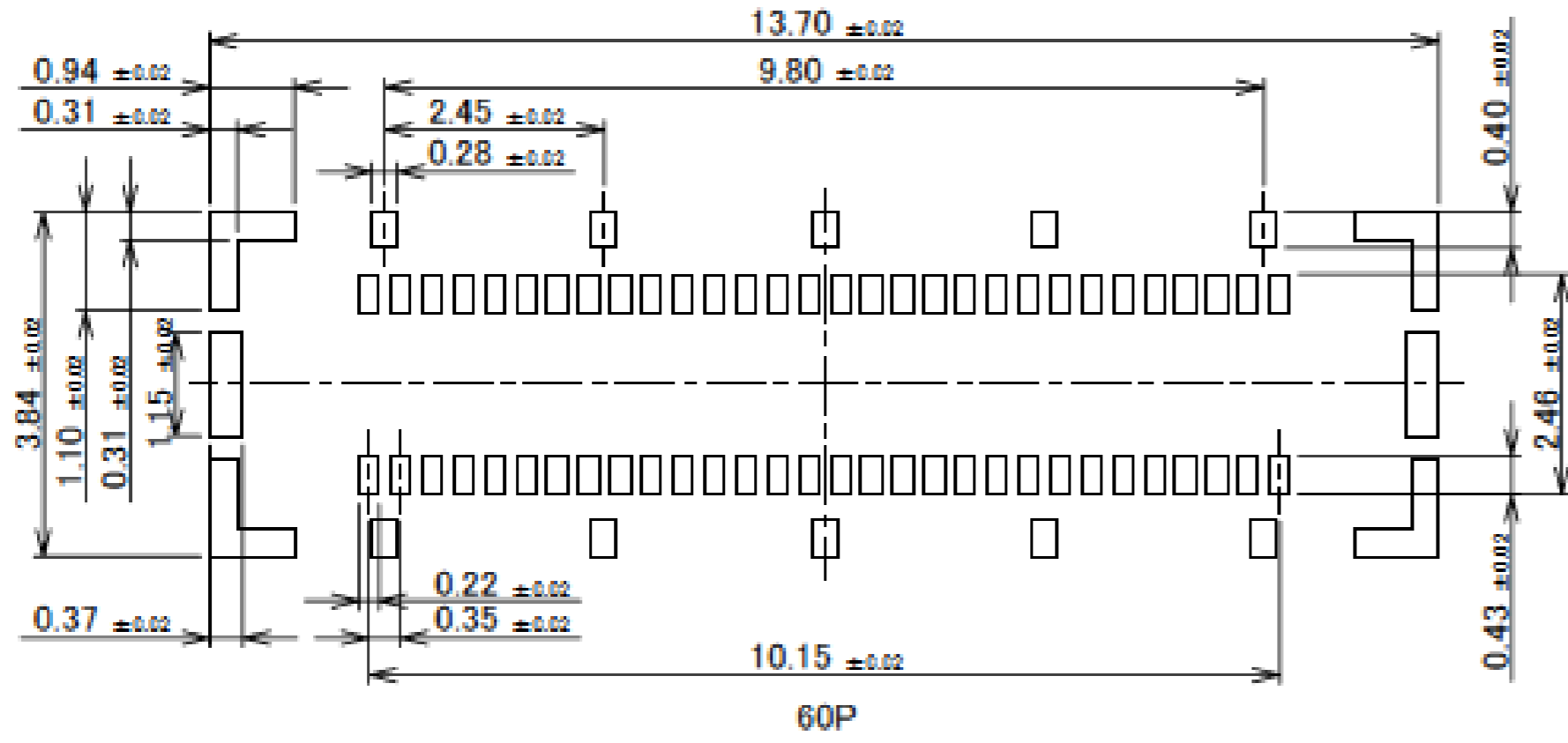
NO.	DESCRIPTION	MATERIAL	FINISH . REMARKS
3	SHELL	CORSON ALLOY	ALL Au 0.01 μm MIN. OVER Ni 1.27 μm MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.13 μm MIN. OVER Ni 1.27 μm MIN. SOLDERING AREA: Au 0.02 μm MIN. OVER Ni 1.27 μm MIN.
1	HOUSING	LCP	UL94V-0 BLACK

# Plug Assembly

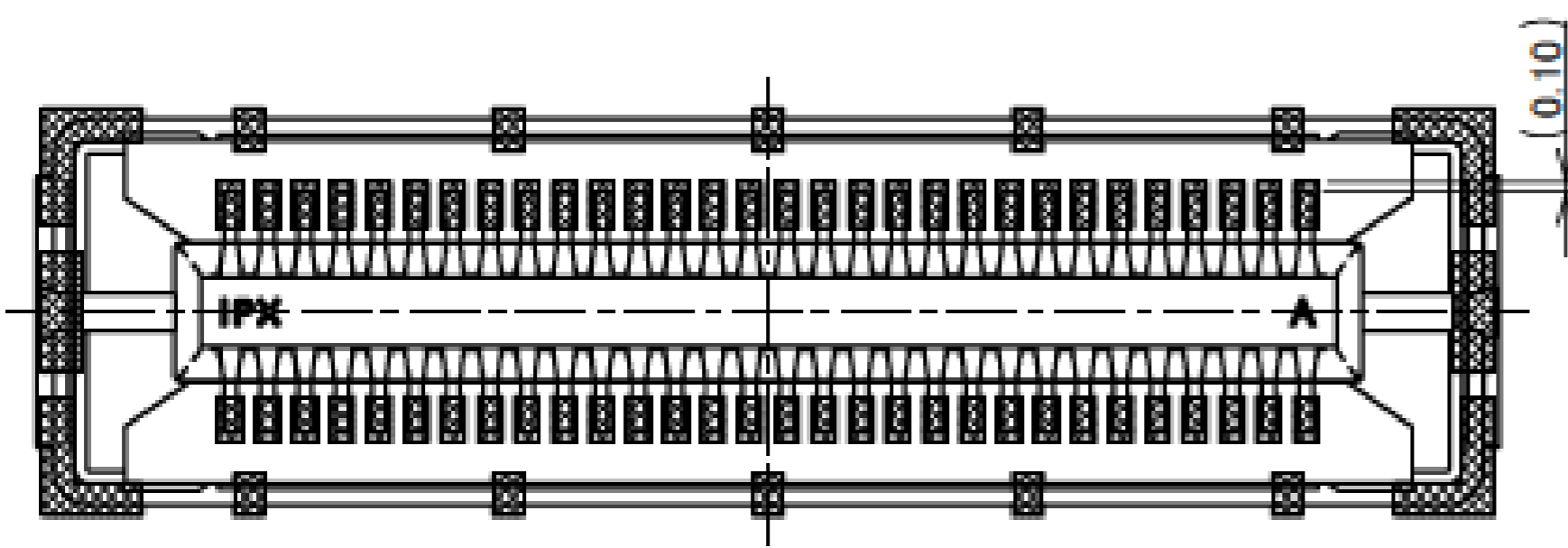
## RECOMMENDED PATTERN LAYOUT



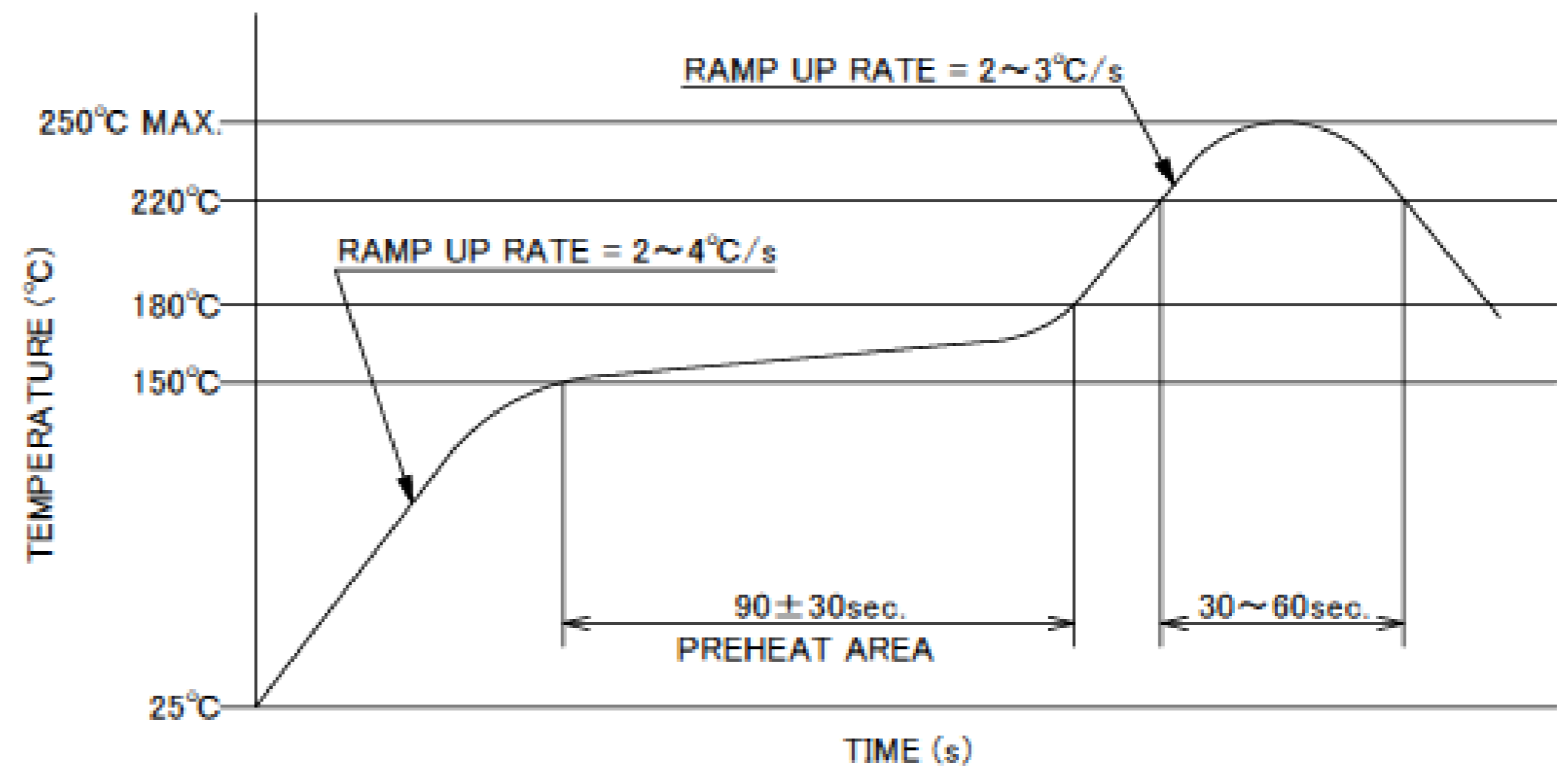
## RECOMMENDED METAL MASK LAYOUT (t=0.10)



Rev.2



CONNECTOR ON RECOMMENDED FOOT PRINT PATTERN LAYOUT



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

Rev.2

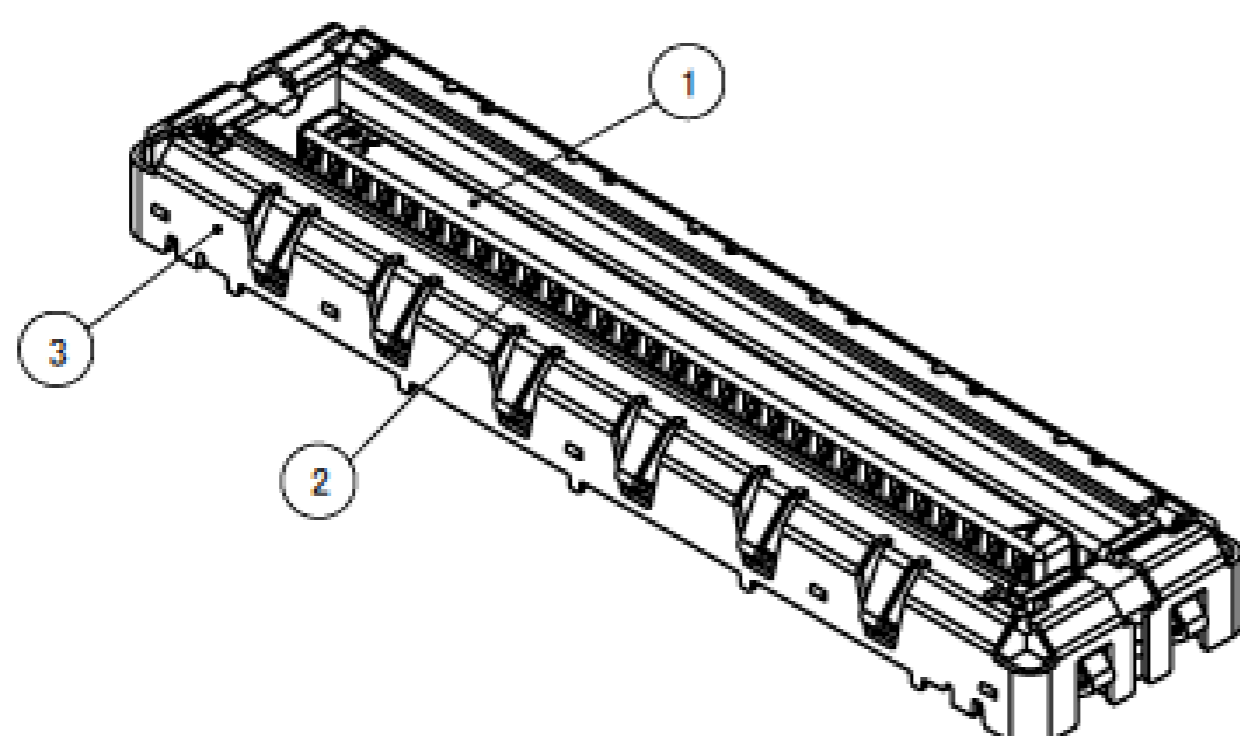
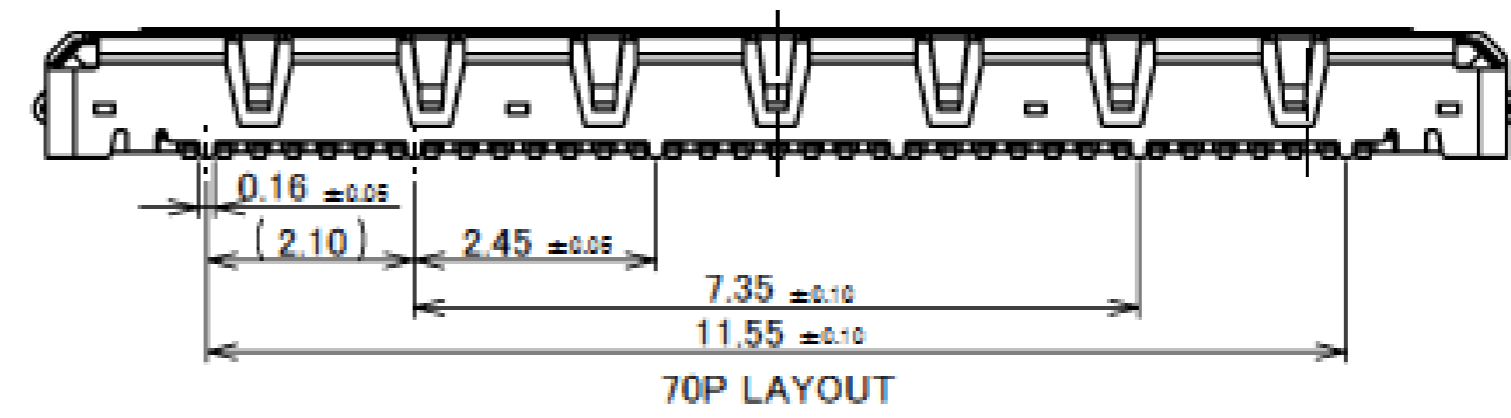
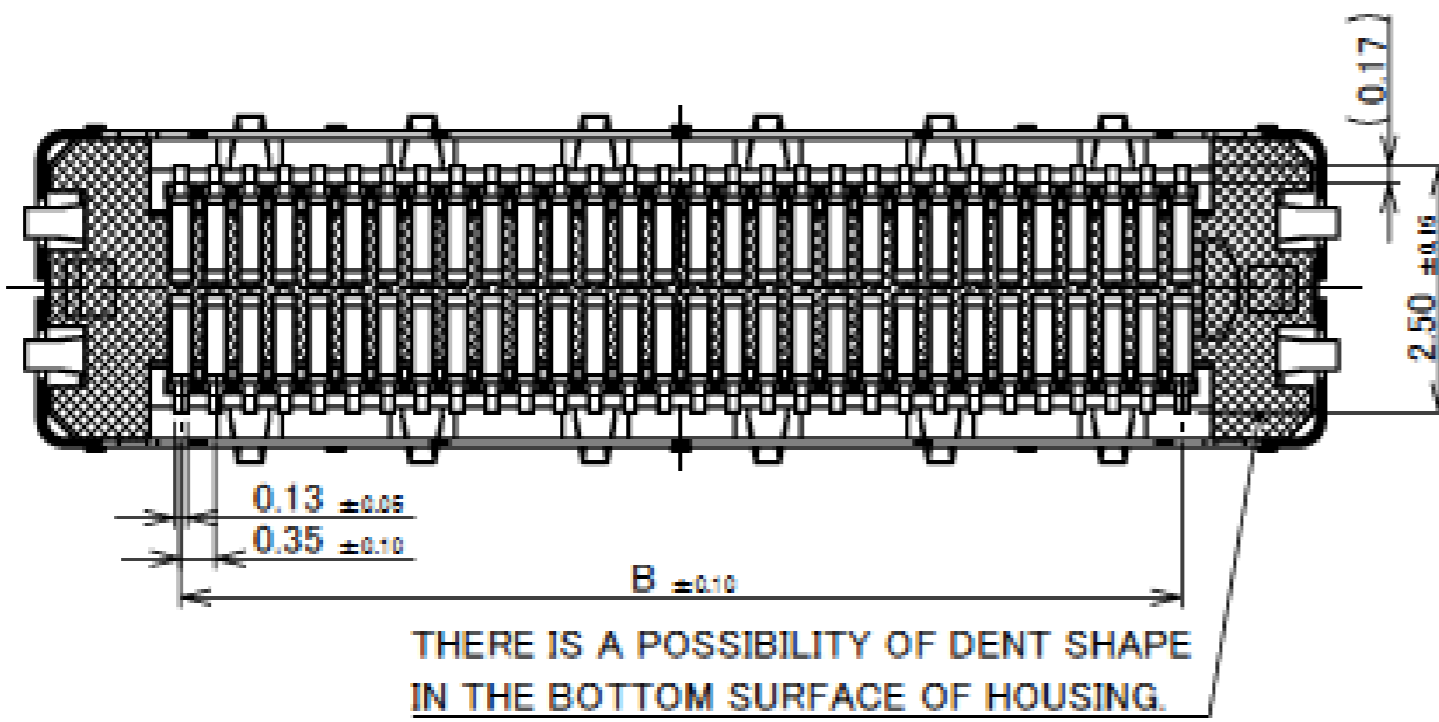
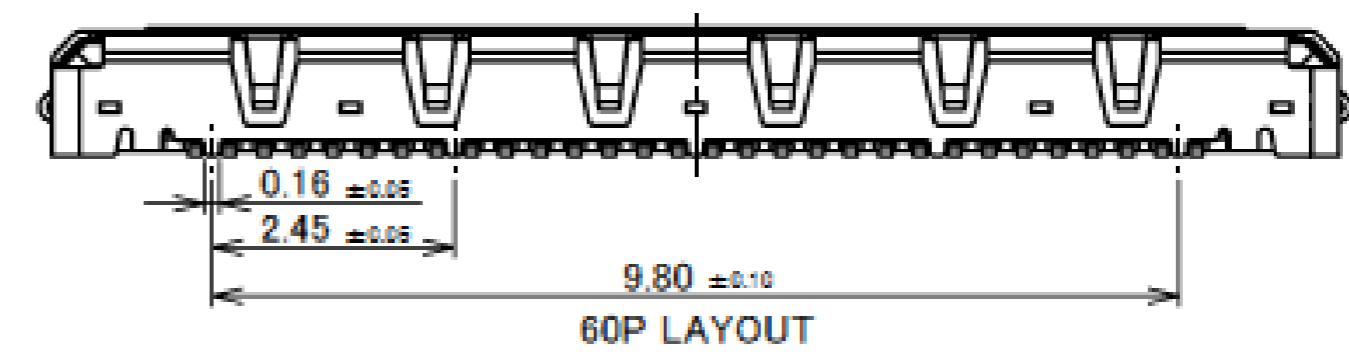
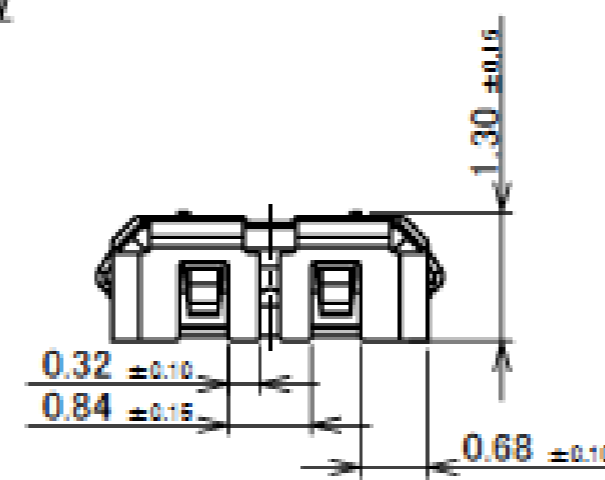
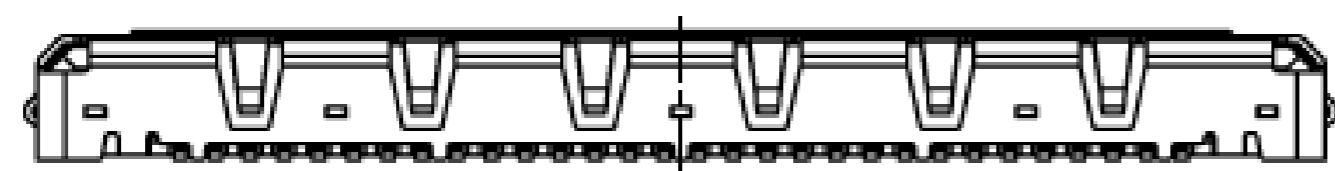
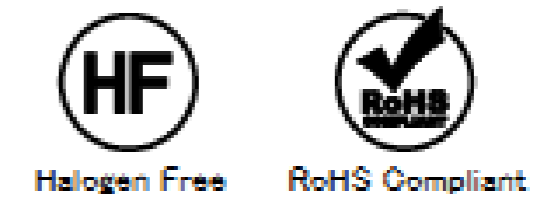
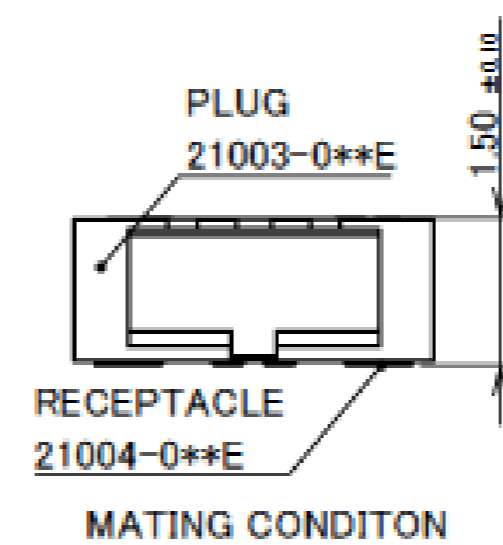
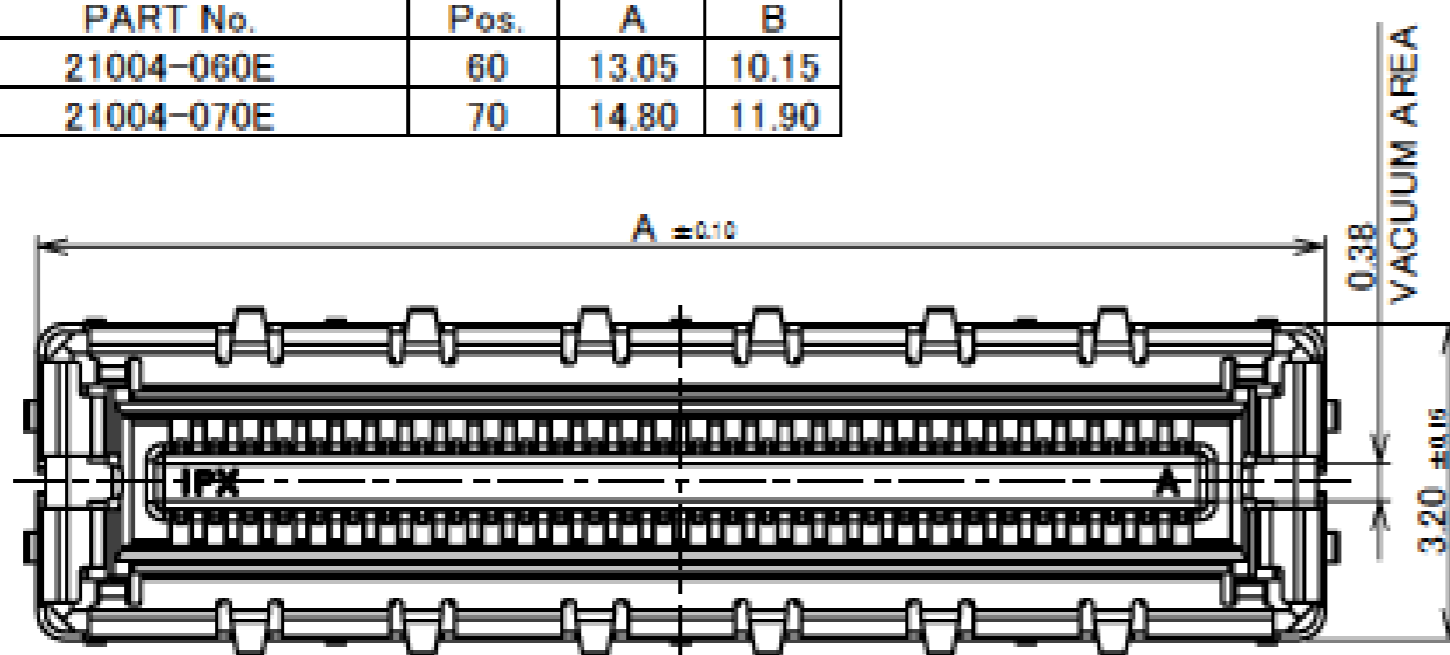
# Plug Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	21004-0**E
RATING VOLTAGE	60V AC (R.M.S.)/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.5A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C) (CONTAINING TEMPERATURE RISE BY CURRENT)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 50mohm MAX. / AFTER TEST : $\triangle$ 50mohm MAX.
CONTACT RESISTANCE (FOR GROUND)	INITIAL : 20mohm MAX. / AFTER TEST : $\triangle$ 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL 60P: 60N MAX. 70P: 70N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	20 CYCLES 60P: 6.0N MIN. 70P: 7.0N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2785
TEST REPORT	TR-22021
PACKING STANDARD	PST-21086
INSTRUCTION MANUAL	HIM-21015
APPEARANCE CRITERIA No.	QLS-A***

Rev.2

# Receptacle Assembly

Recommended P/N	21004-0**E		
PART No.	Pos.	A	B
21004-060E	60	13.05	10.15
21004-070E	70	14.80	11.90

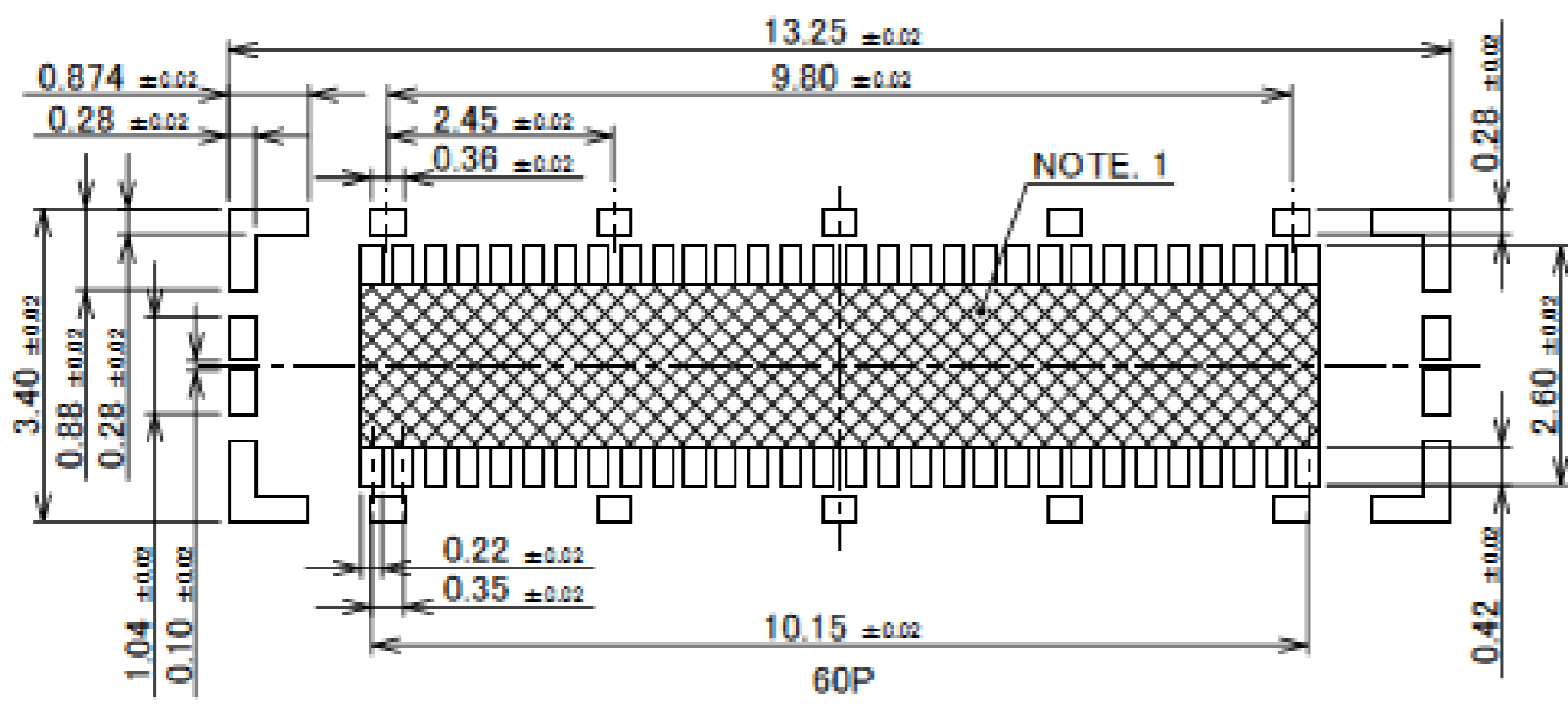


3	SHELL	CORSON ALLOY	ALL Au 0.01 $\mu$ m MIN. OVER Ni 1.27 $\mu$ m MIN.
2	CONTACT	CORSON ALLOY	CONTACT AREA: Au 0.13 $\mu$ m MIN. OVER Ni 1.27 $\mu$ m MIN. SOLDERING AREA: Au 0.02 $\mu$ m MIN. OVER Ni 1.27 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0 BLACK
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS

Rev.2

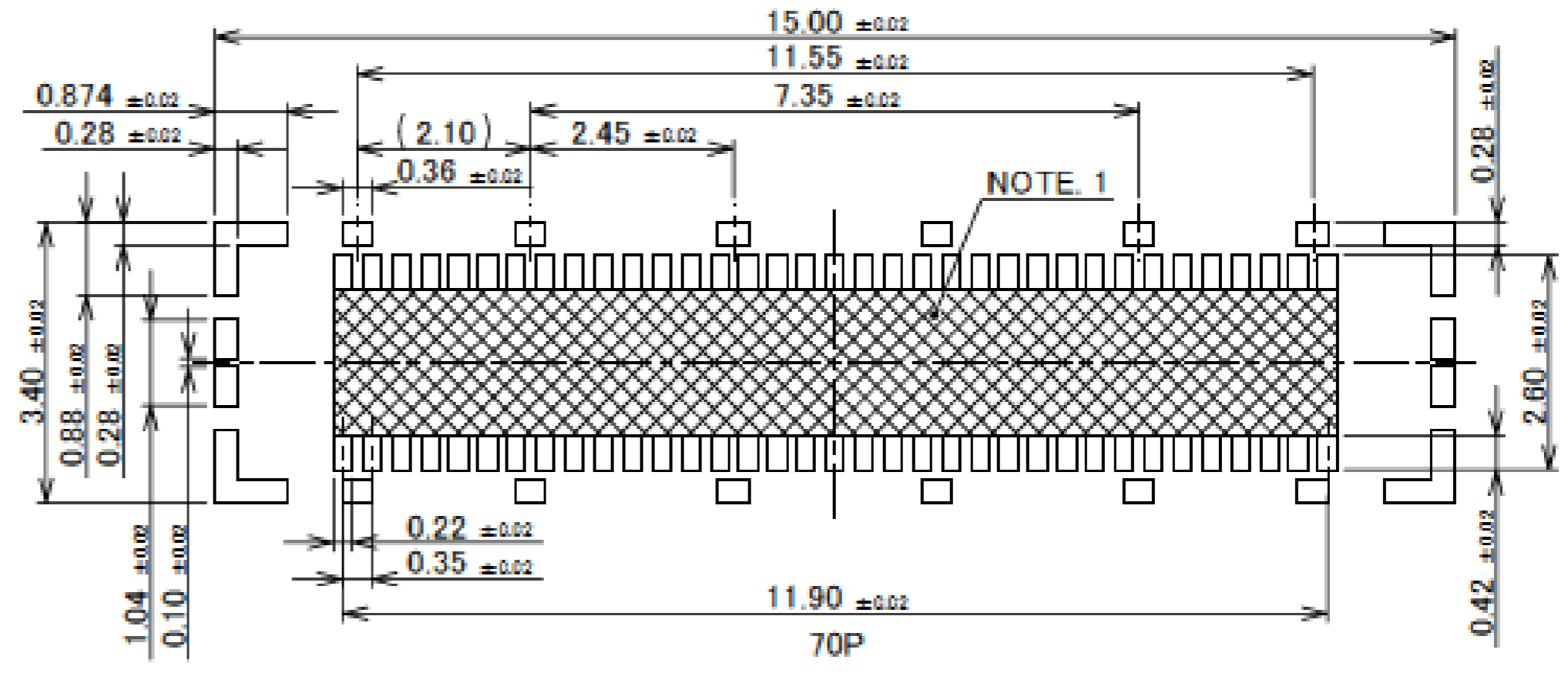
# Receptacle Assembly

## RECOMMENDED PATTERN LAYOUT

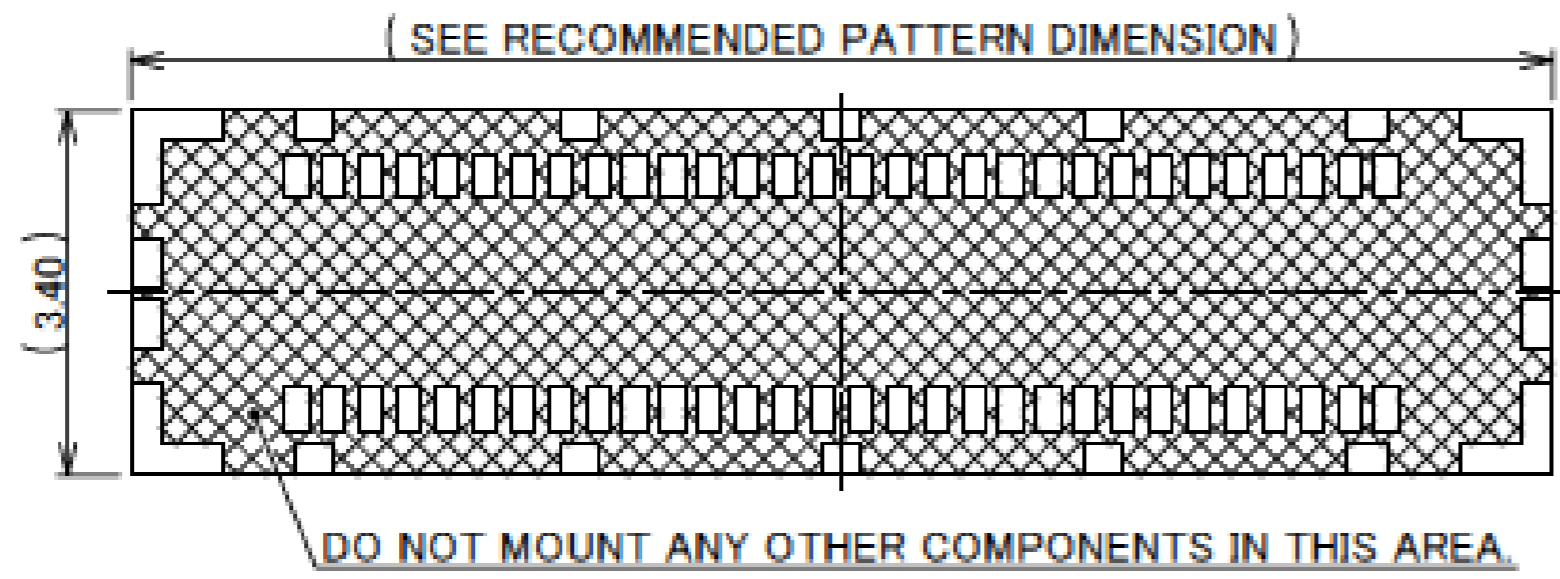
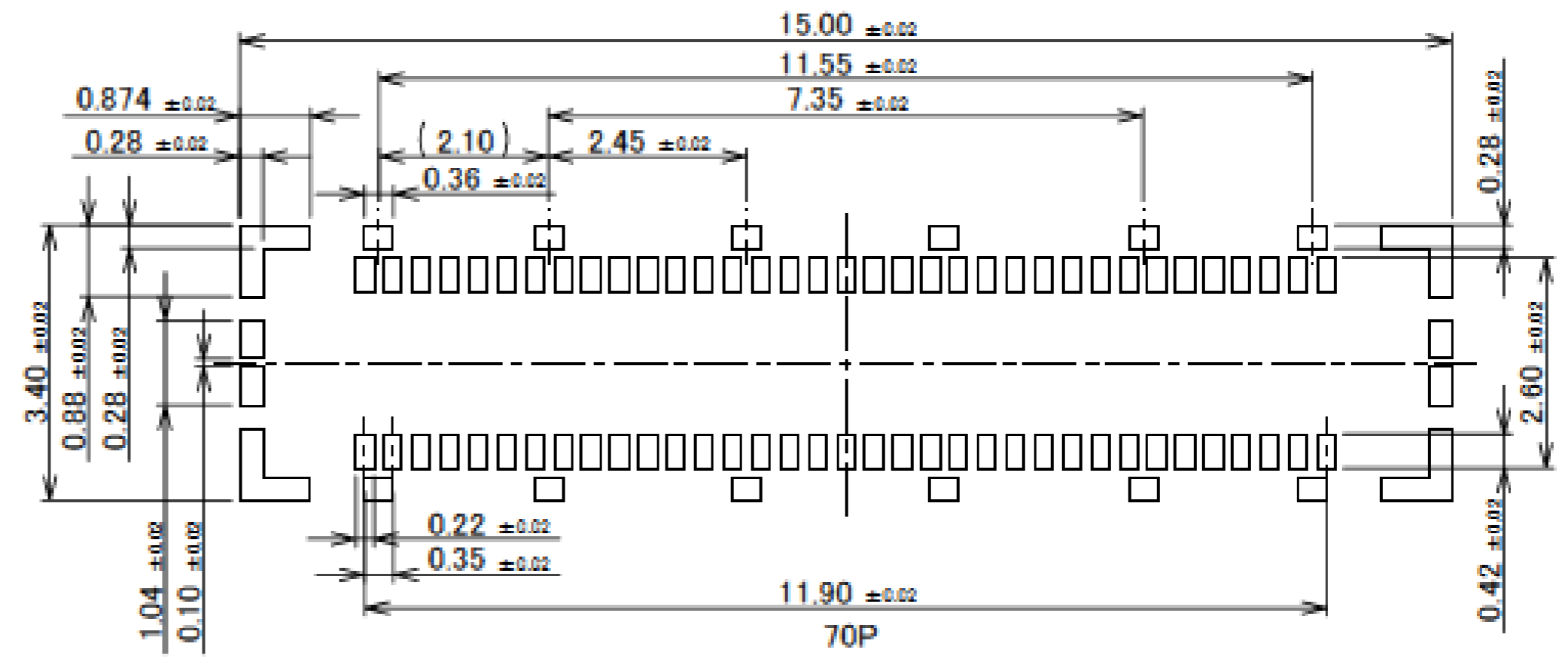
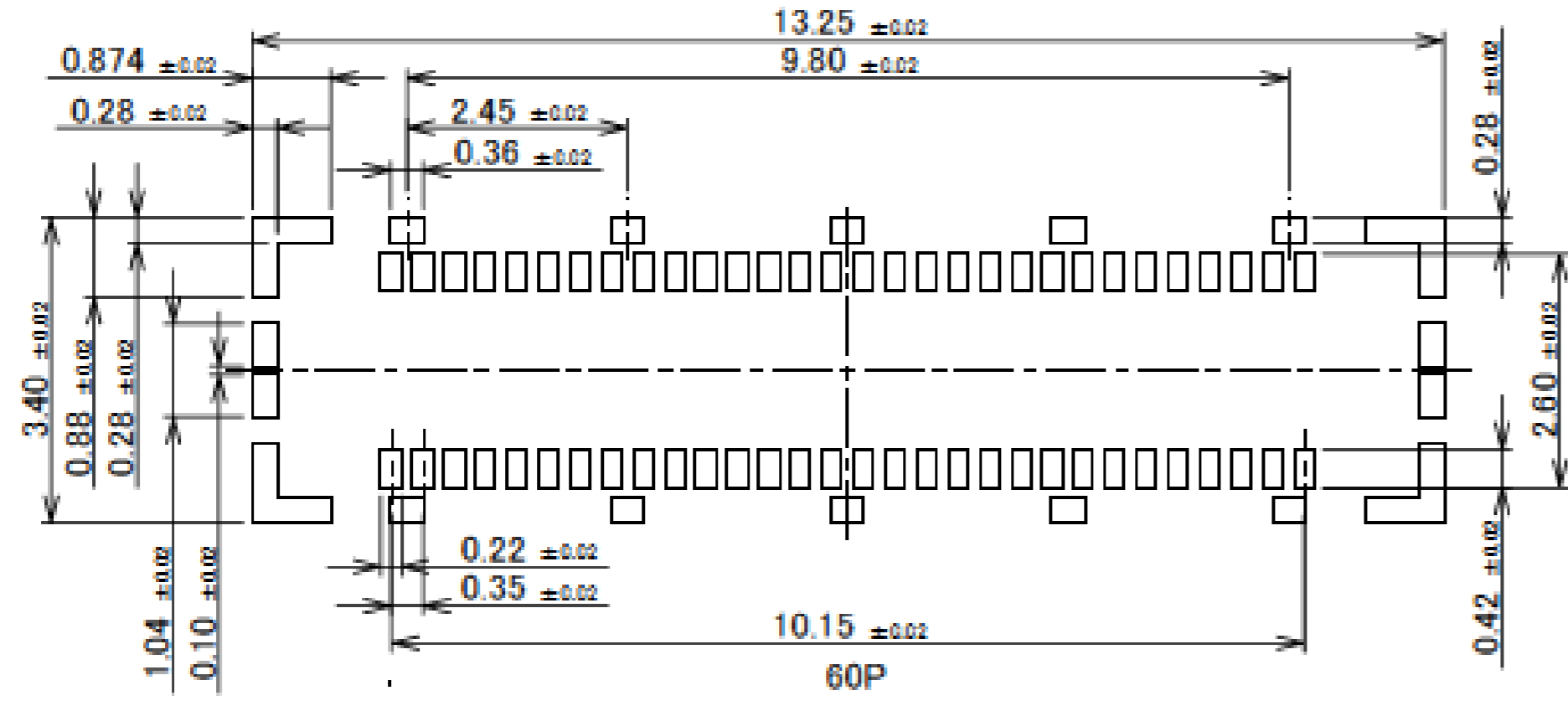


## NOTES

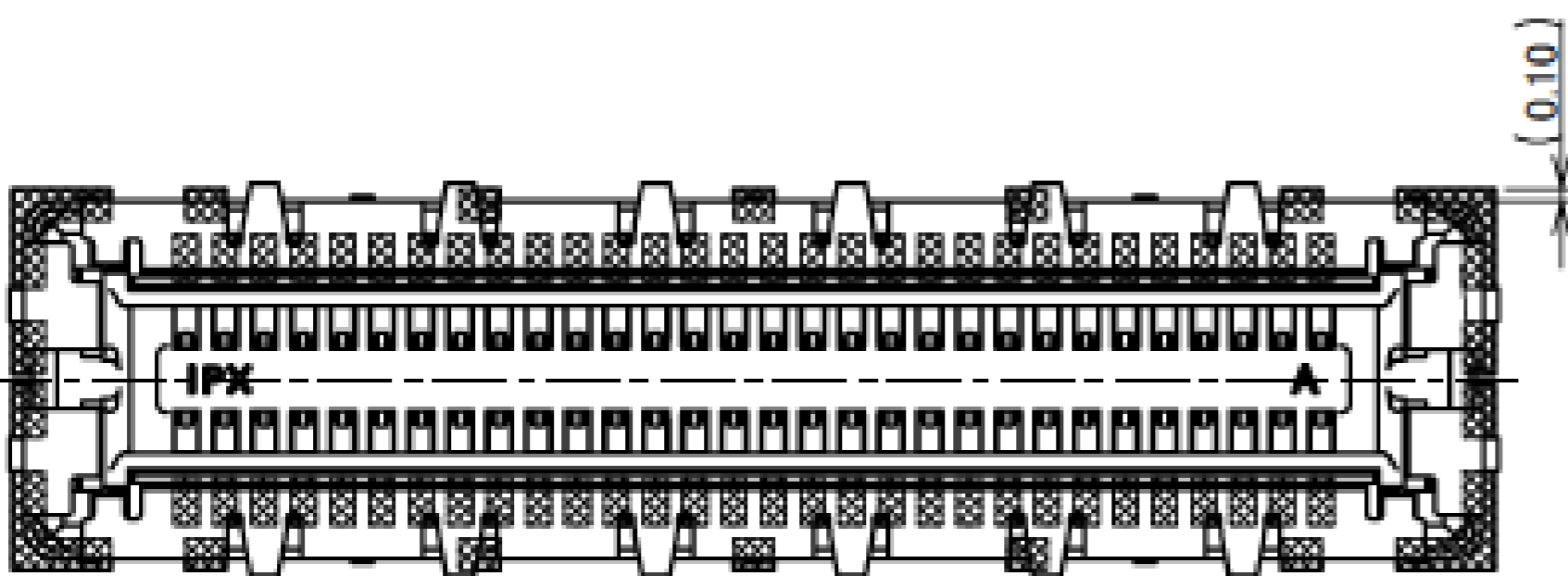
1. FOOT PRINT PATTERN PROHIBITION AREA  
SOLDER RESIST MUST BE APPLIED TO THIS HATCHED AREA IF SURFACE TRACES ARE ROUNDED.



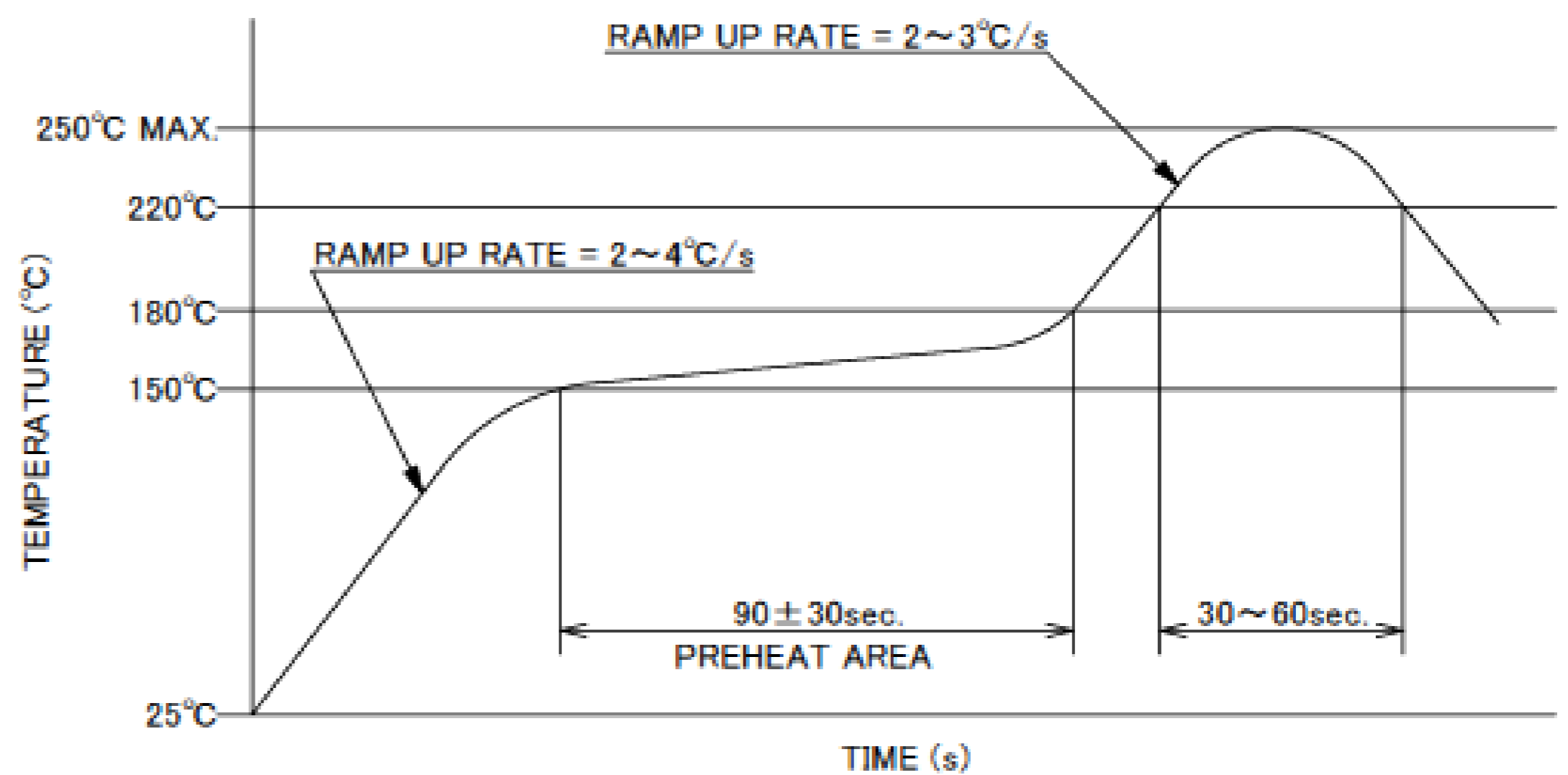
## RECOMMENDED METAL MASK LAYOUT (t=0.10)



Rev.2



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN LAYOUT



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

Rev.2

## Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	21003-0**E
RATING VOLTAGE	60V AC (R.M.S.)/DC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	0.5A AC/DC (PER CONTACT PIN)/ 12.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C) (CONTANING TEMPERATURE RISE BY CURRENT)
OPERATING HUMIDITY	85% MAX.
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 50mohm MAX. / AFTER TEST : $\Delta$ 50mohm MAX.
CONTACT RESISTANCE (FOR GROUND)	INITIAL : 20mohm MAX. / AFTER TEST : $\Delta$ 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1000Mohm MIN. / AFTER TEST : 500Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	20 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	INITIAL 60P: 60N MAX. 70P: 70N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	20 CYCLES 60P: 6.0N MIN. 70P: 7.0N MIN.
COPLANARITY	0.10mm MAX.
PRODUCT SPECIFICATION	PRS-2785
TEST REPORT	TR-22021
PACKING STANDARD	PST-21087
INSTRUCTION MANUAL	HIM-21015
APPEARANCE CRITERIA No.	QLS-A***

Rev.2



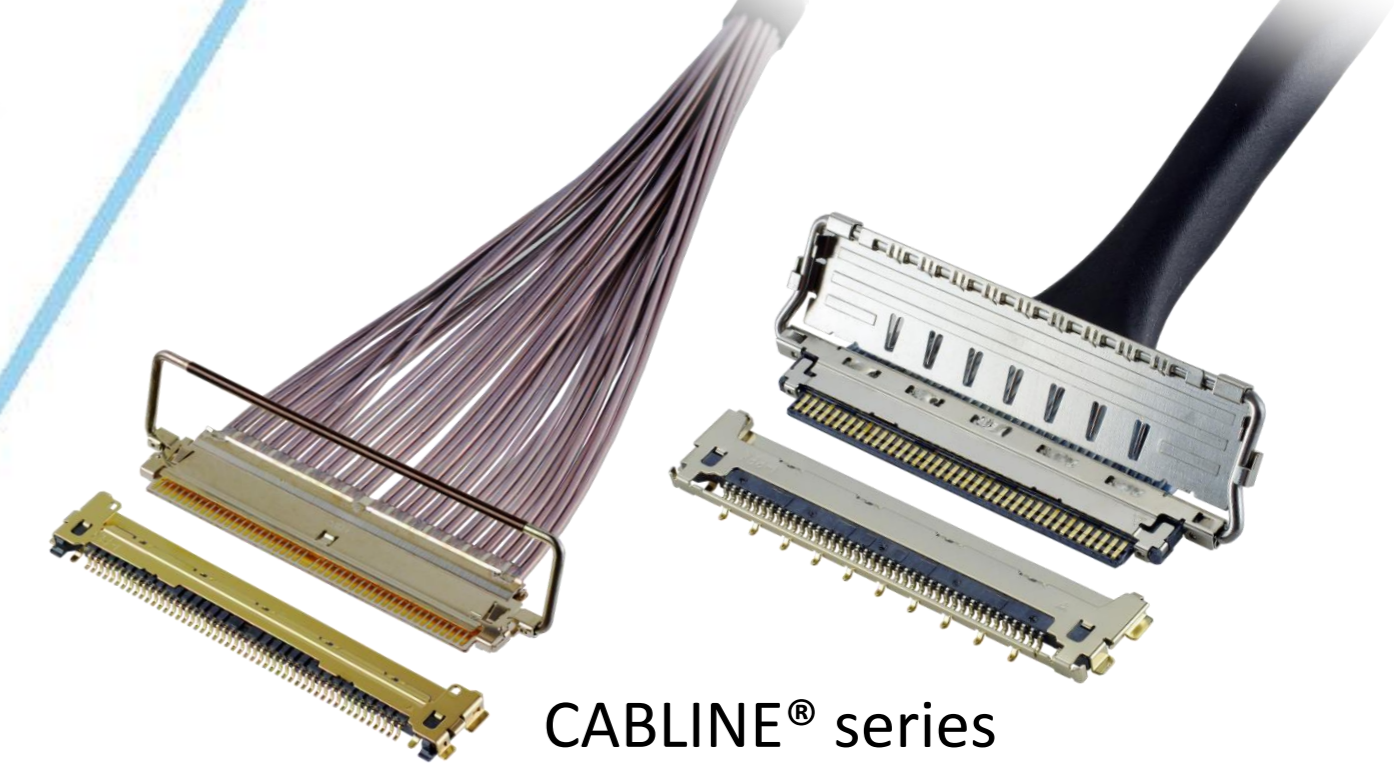
# Custom Products Available

## RF Connector

MHF® series



## Micro-coaxial/Twinax/Discrete Wire Connector



CABLINE® series

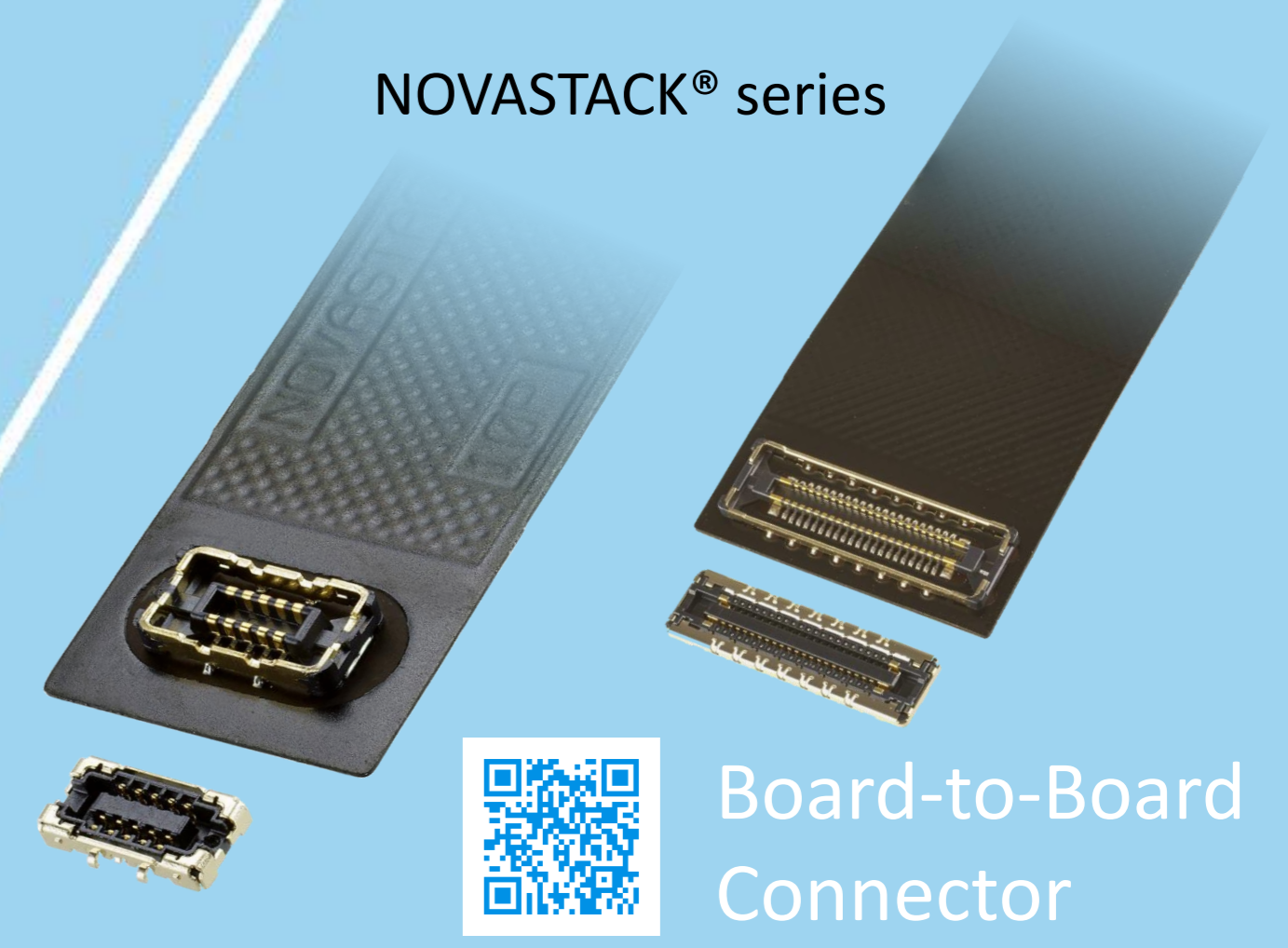


## Optical Module

LIGHTPASS® series



NOVASTACK® series



## Board-to-Board Connector



## Power Connector/Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



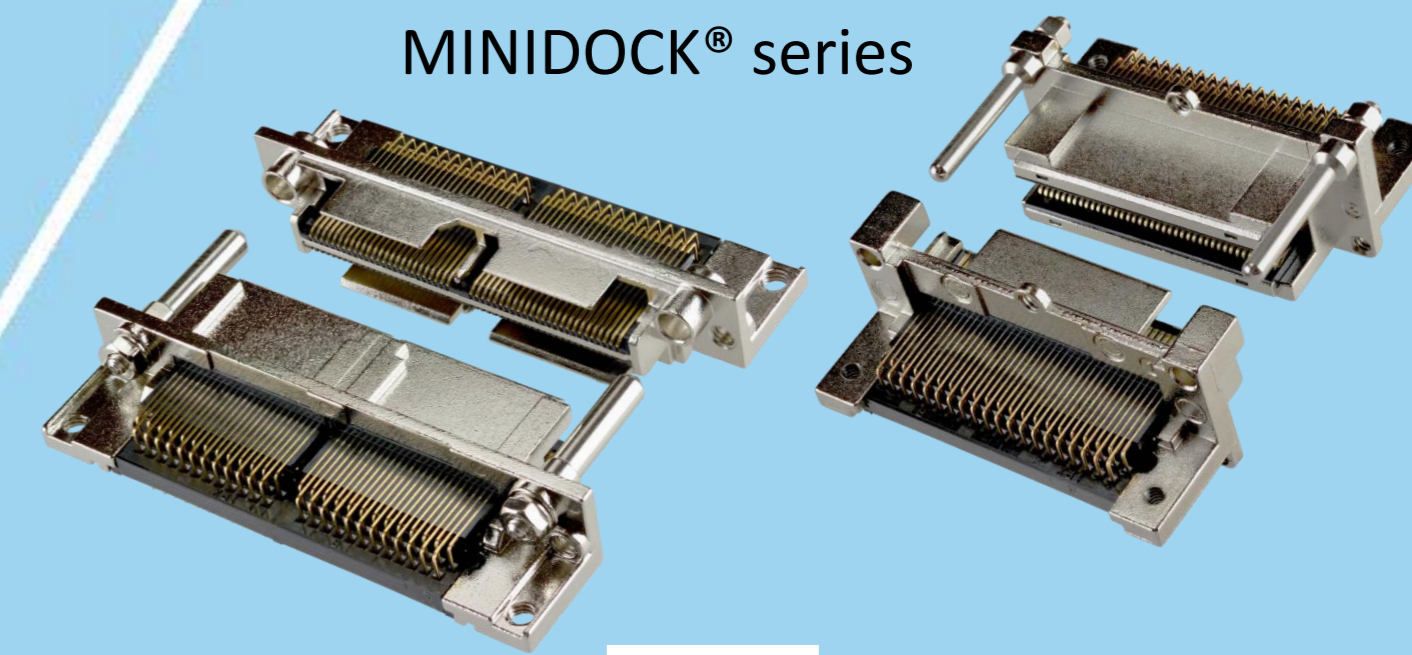
## FPC FFC Connector



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](http://www.i-pex.com)



# I-PEX

© I-PEX Inc. 2024  
All rights reserved