

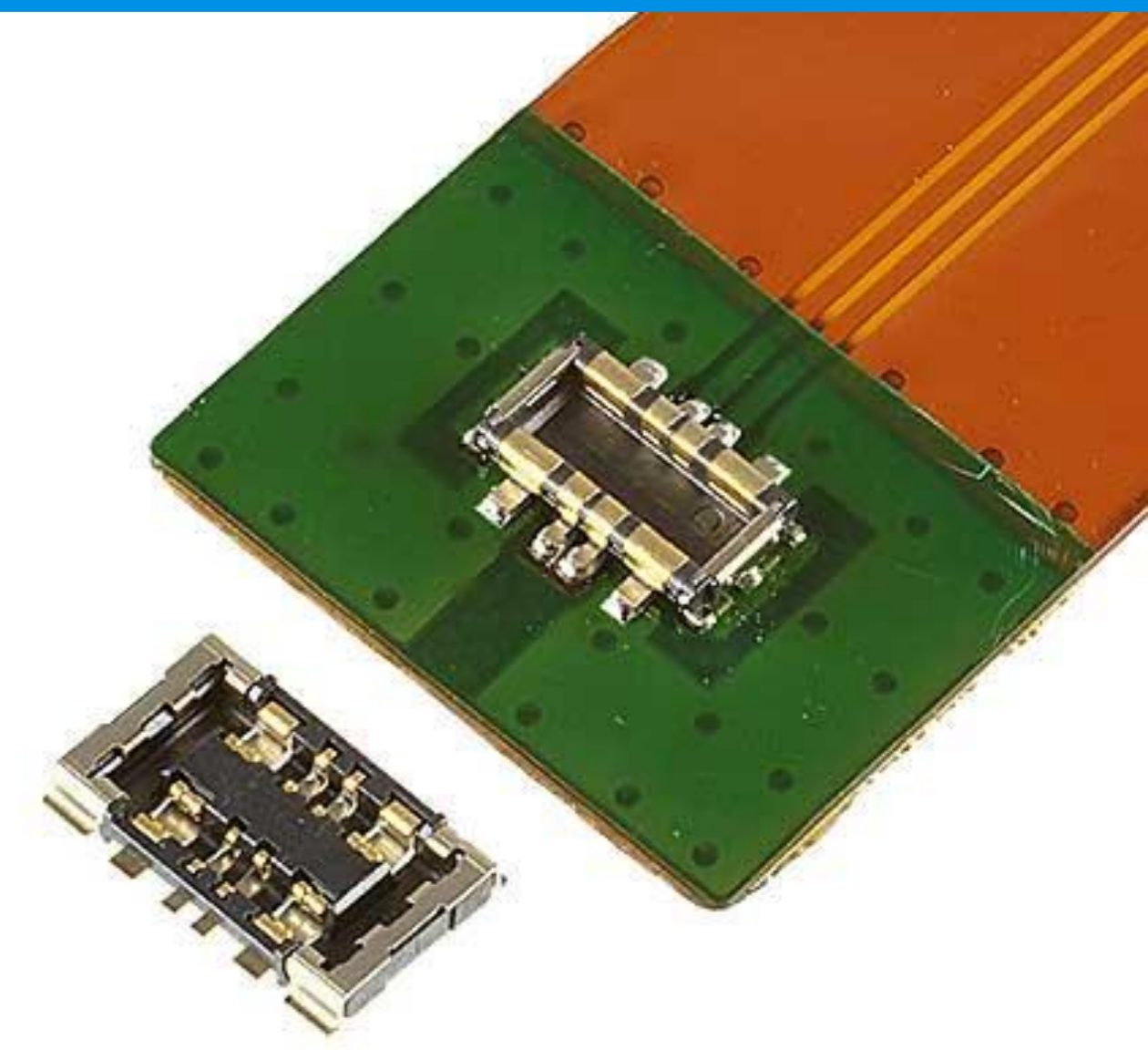
# NOVASTACK®-B

Supports high power delivery, robust design, 0.4 mm pitch, 0.6 mm height, 2.6 mm depth

## Product Specifications:

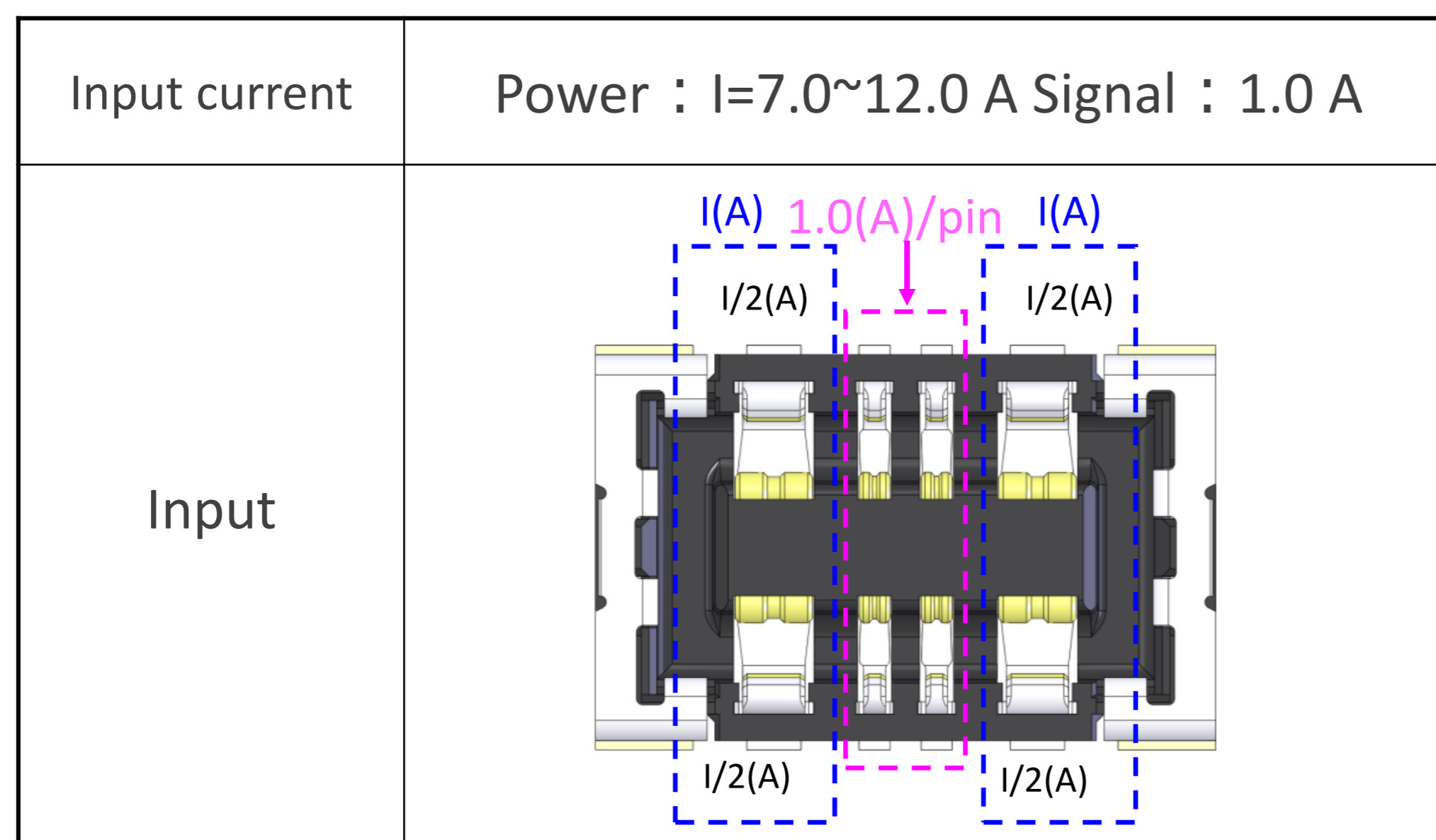
Board Pitch (mm)	0.4 (signal), 1.7 (power)	
Wiping Length (mm)	0.1	
Mated Size (mm)	Height	0.6 +/- 0.1
	Width	Formula: $3.20 + (0.4 * p/2)$
	Depth	2.6
Current Rating	Signal	1.0 A/pin
	Power	6.0 A/pin x 4
Pin Counts	Range	2 - 4 (signal) + 4 (power)
	Available	4 + 4

\* Please inquire for pin counts not listed or outside of the pin count range.

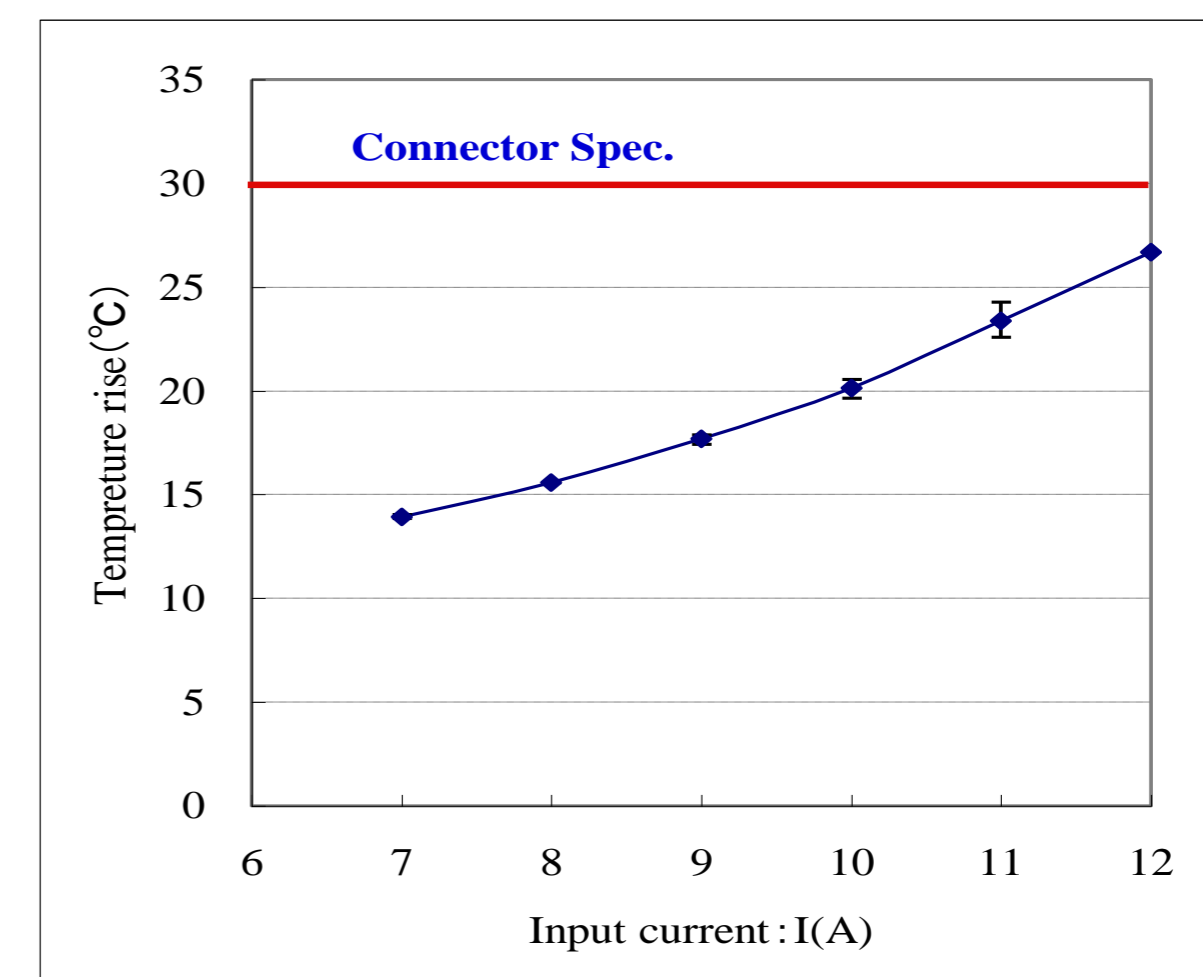


## 6.0 A x 4 pins (USB power delivery applicable) with 4 signal pins

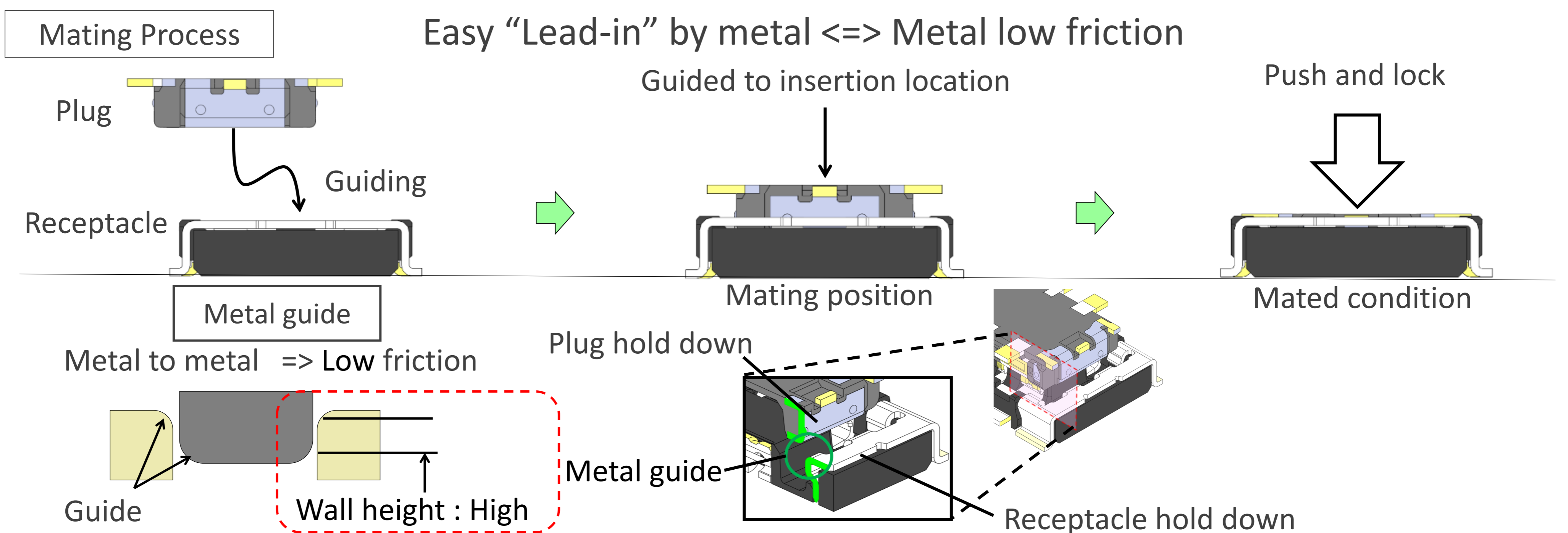
Temperature rise Spec :  $\Delta T = 30$  degrees MAX (at 12.0 A)



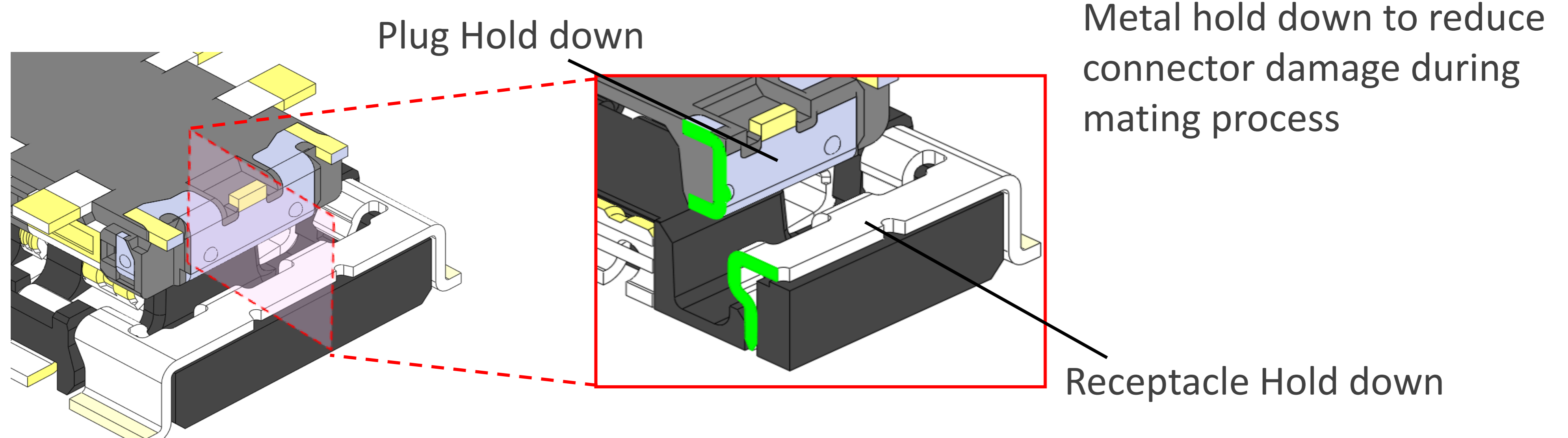
Test result  
 $\Delta T$  in measurement of temperature rise was MAX 27.1 degrees (Celsius) and satisfied Spec. NOVASTACK-B is applicable for high current of 12 A



## Metal-to-metal guide offers easy mating



## Robust design with hold down feature



# Component Parts Details

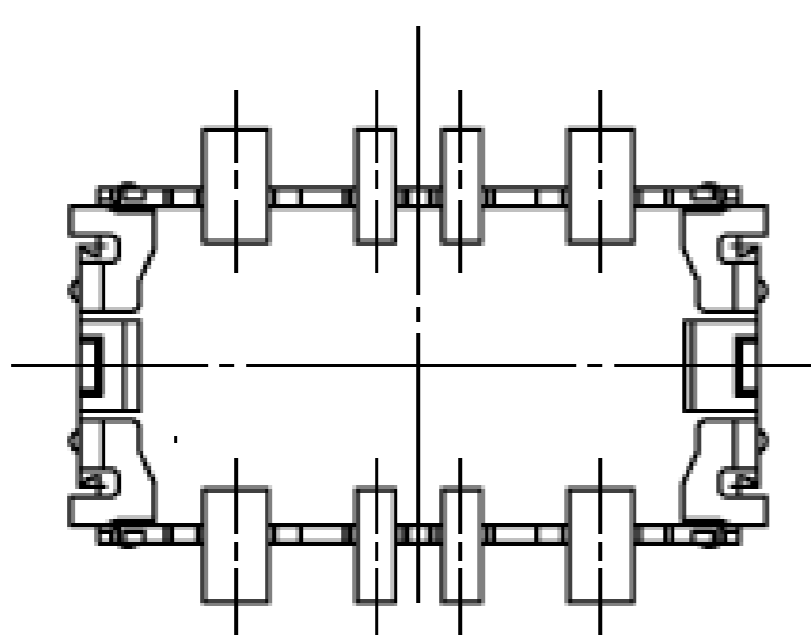
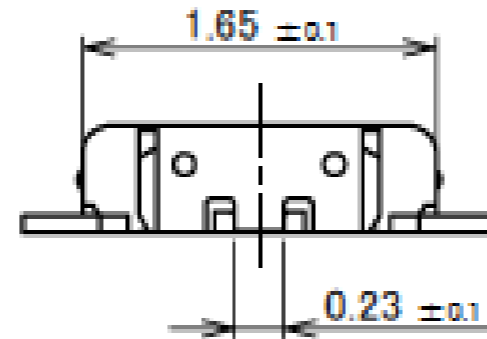
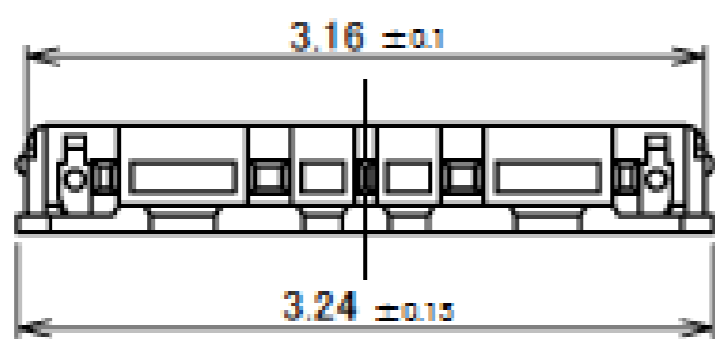
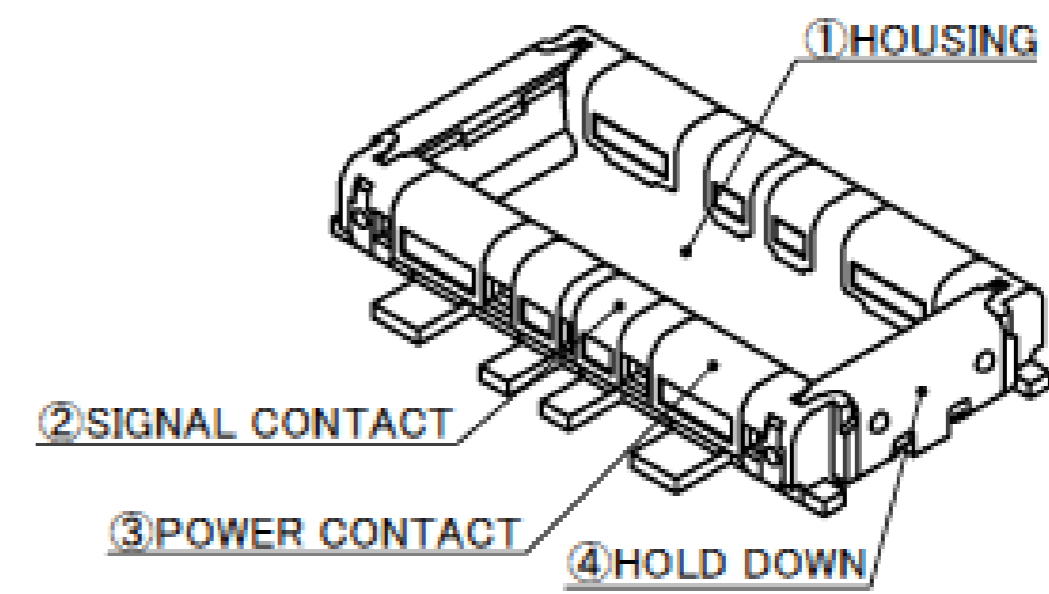
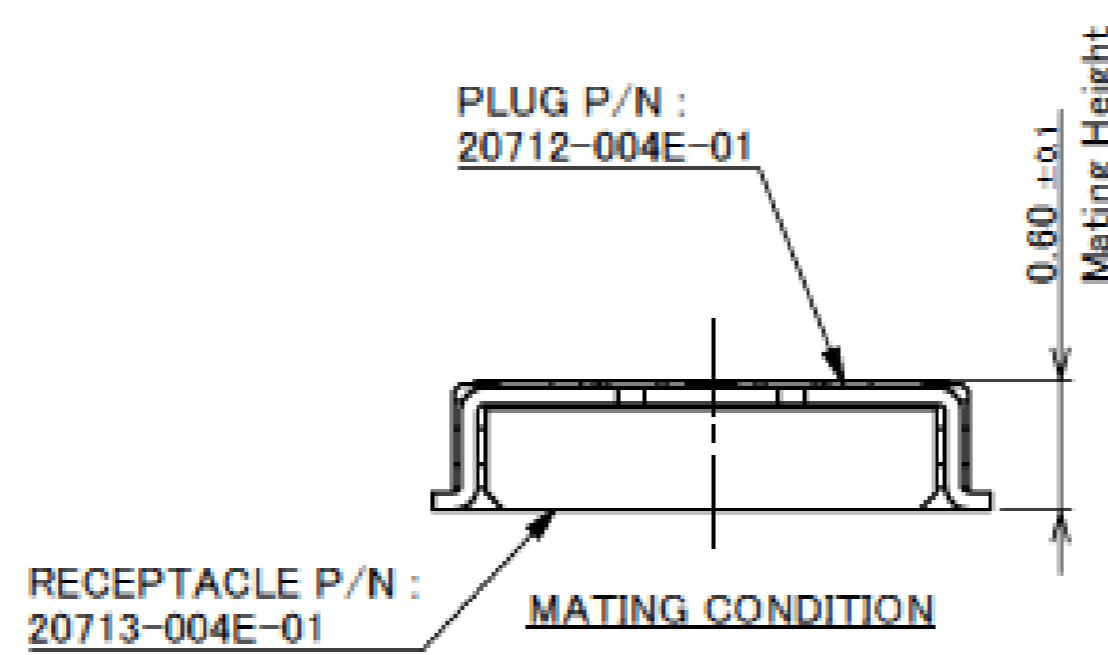
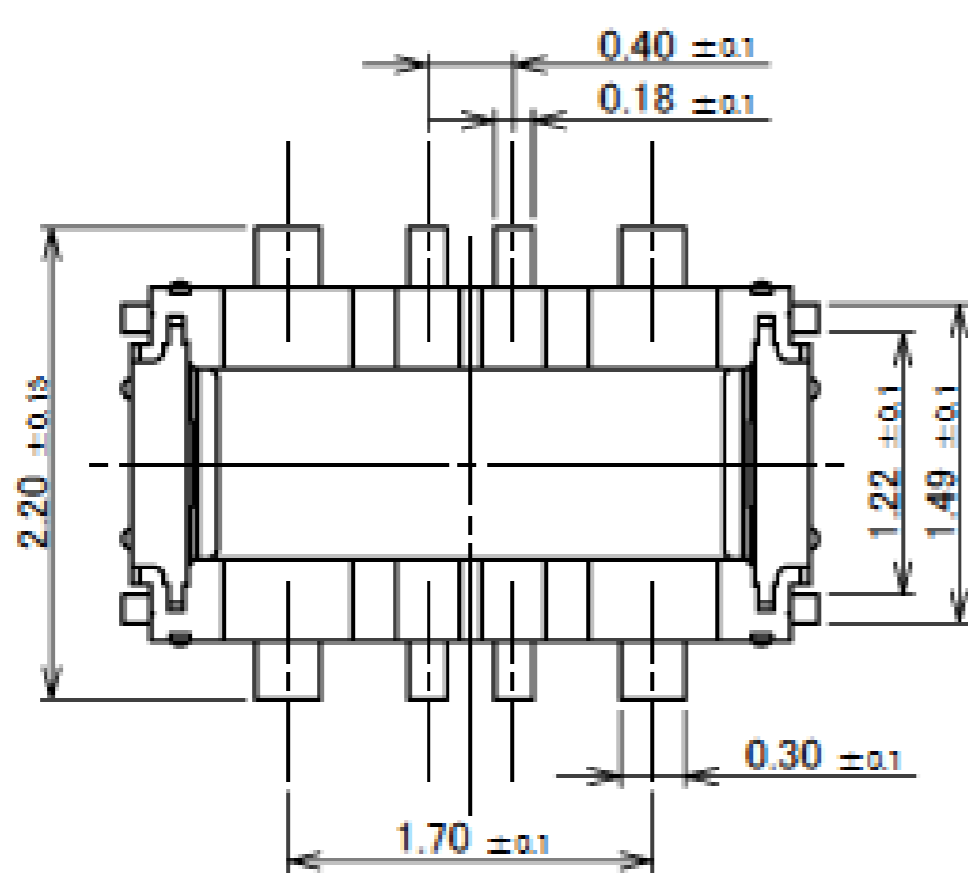
Rev.#

## Plug Assembly

Recommended P/N		20712-004E-01
PART No.	Q'ty/REEL	
20712-004E-01	20K	
20712-004E-02	5K	



Halogen Free RoHS Compliant

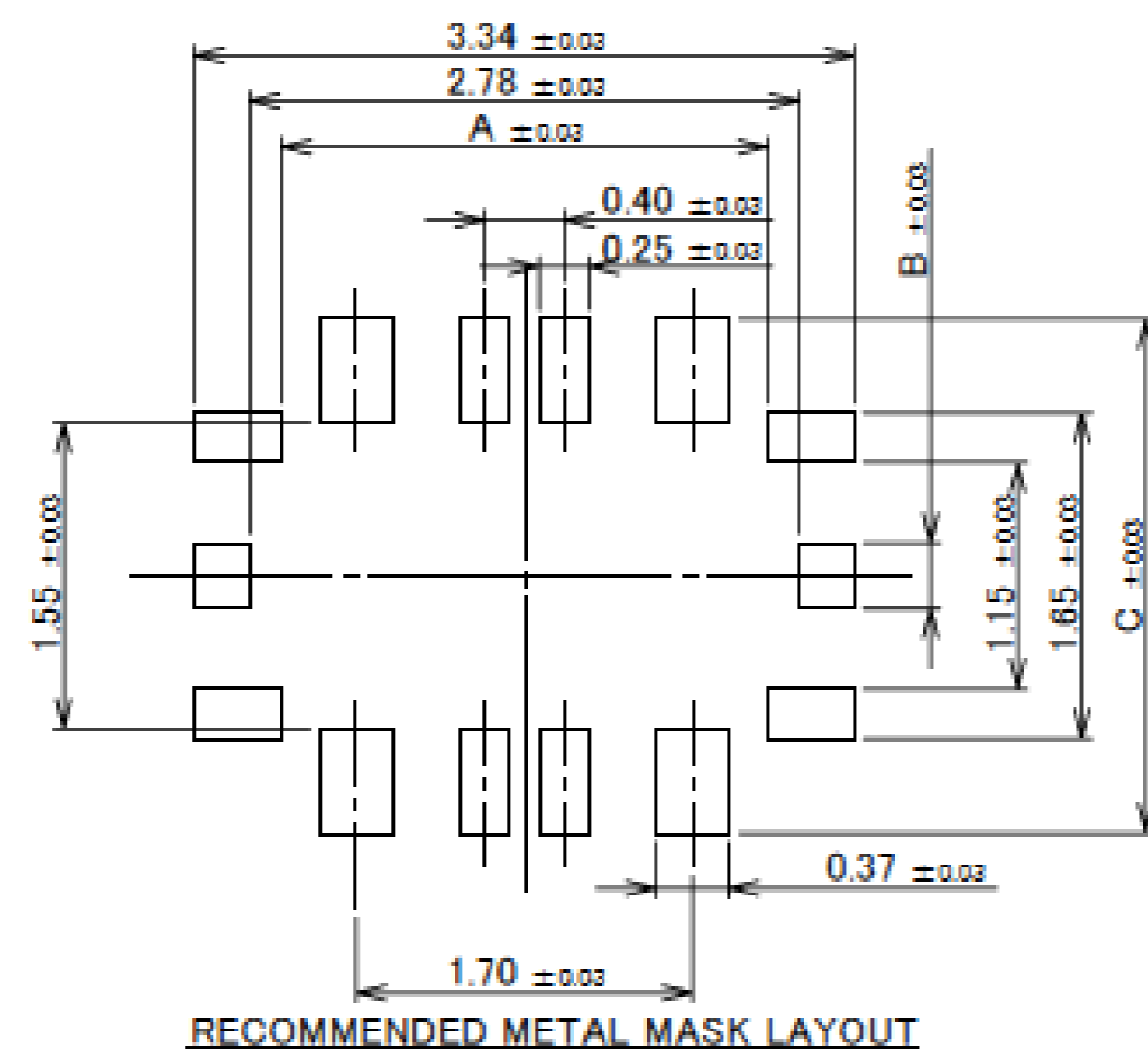
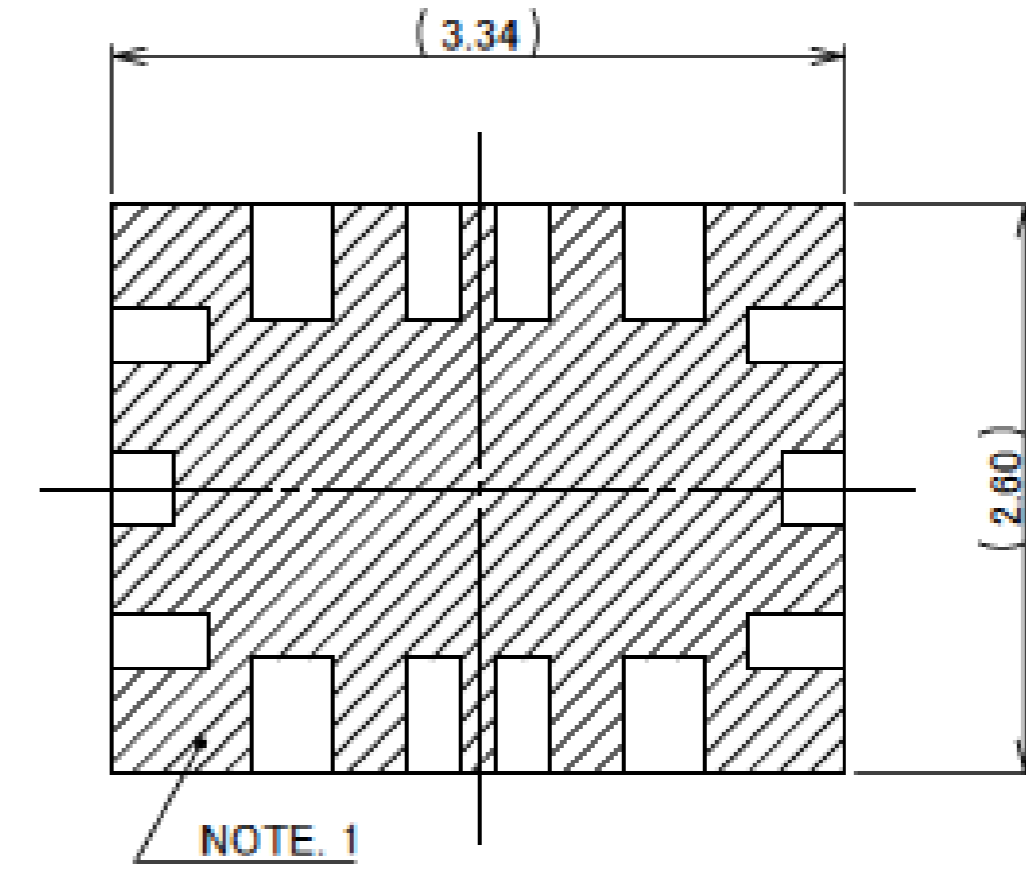
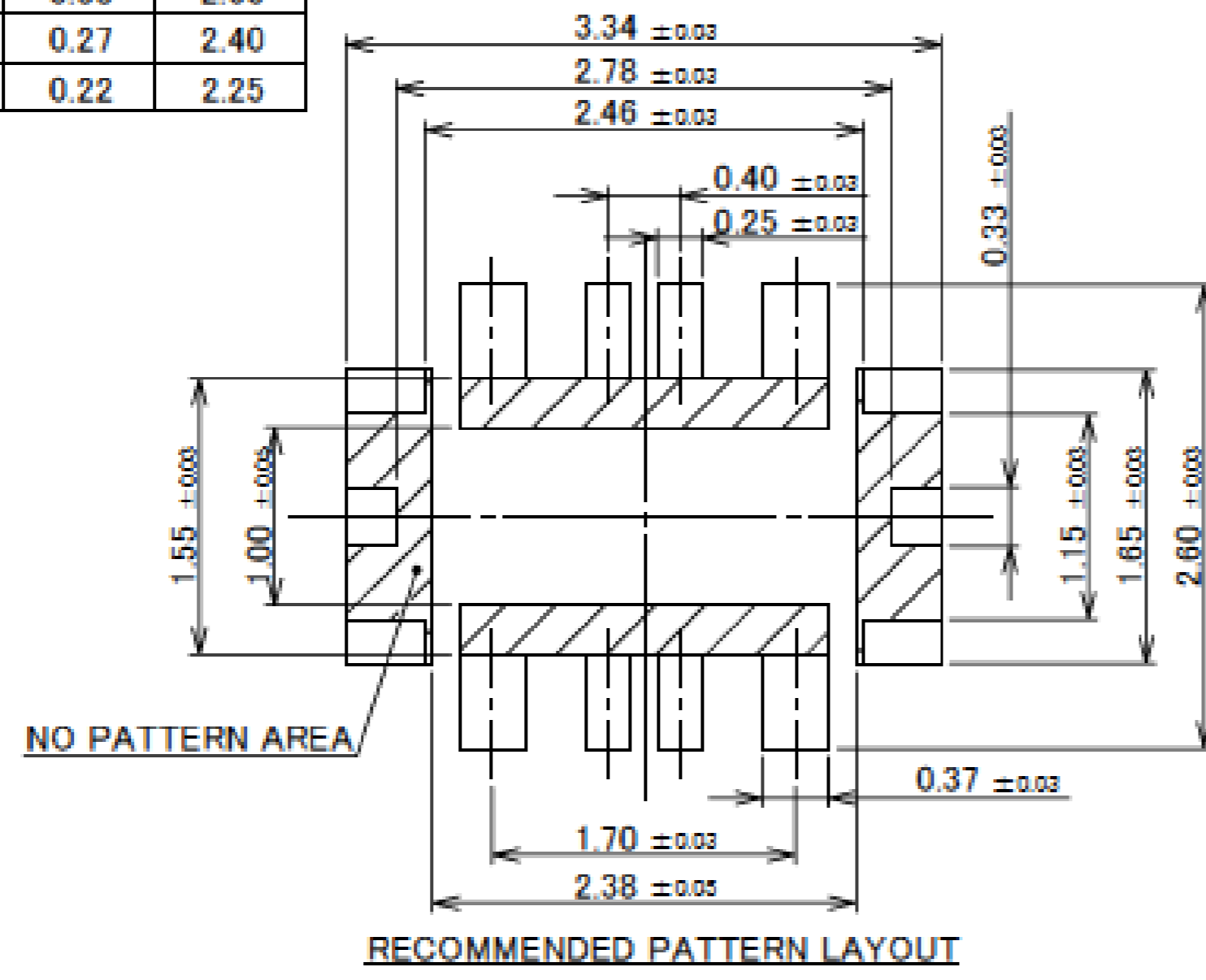


4	HOLD DOWN	PHOSPHOR BRONZE	ALL OVER Ni 1.27 $\mu$ m MIN. SOLDERING PART Au 0.02 $\mu$ m MIN.
3	POWER CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 $\mu$ m MIN. CONTACT PART Au 0.05 $\mu$ m MIN./ SOLDERING PART Au 0.02 $\mu$ m MIN.
2	SIGNAL CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 $\mu$ m MIN. CONTACT PART Au 0.05 $\mu$ m MIN./ SOLDERING PART Au 0.02 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.5

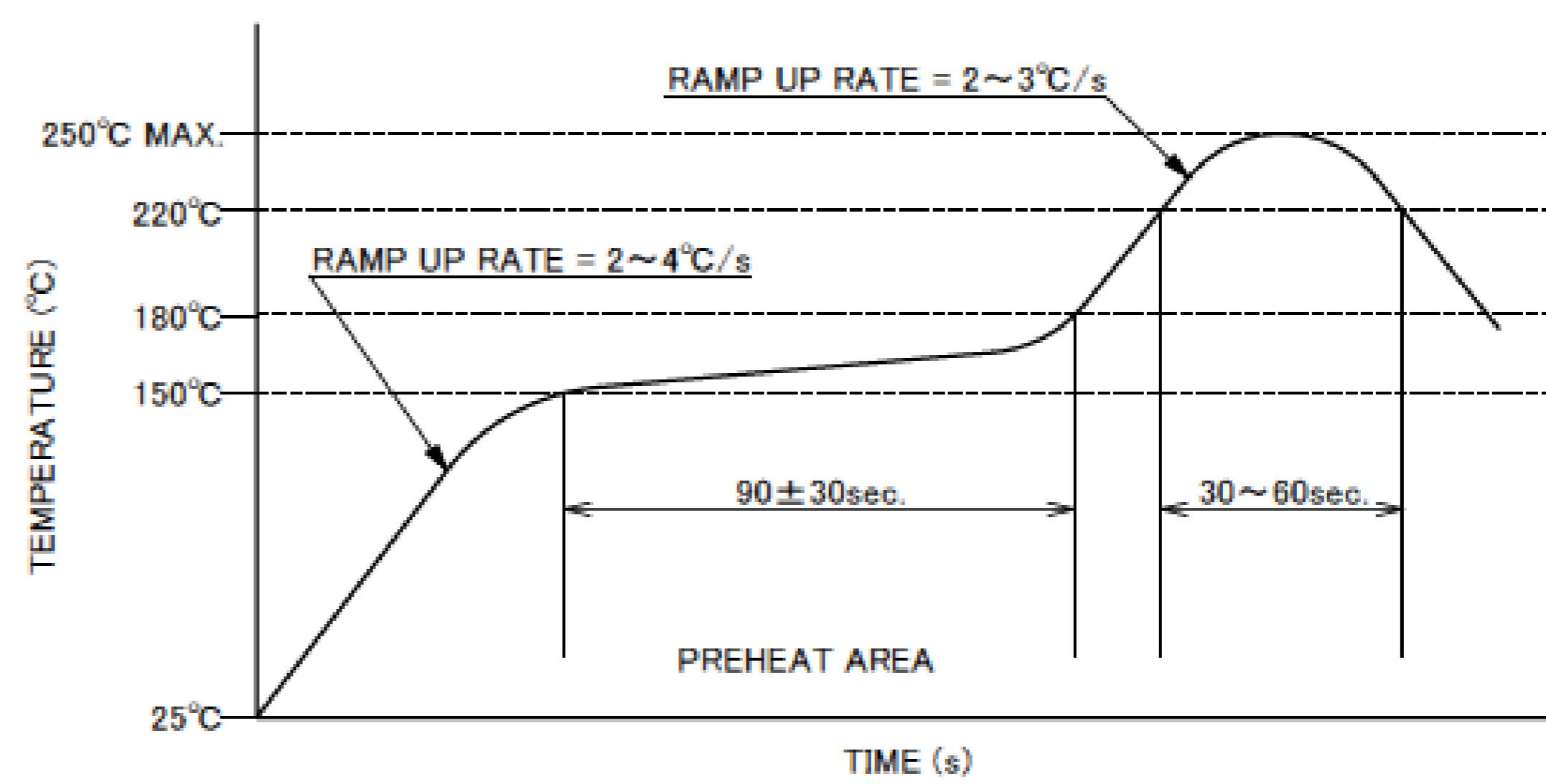
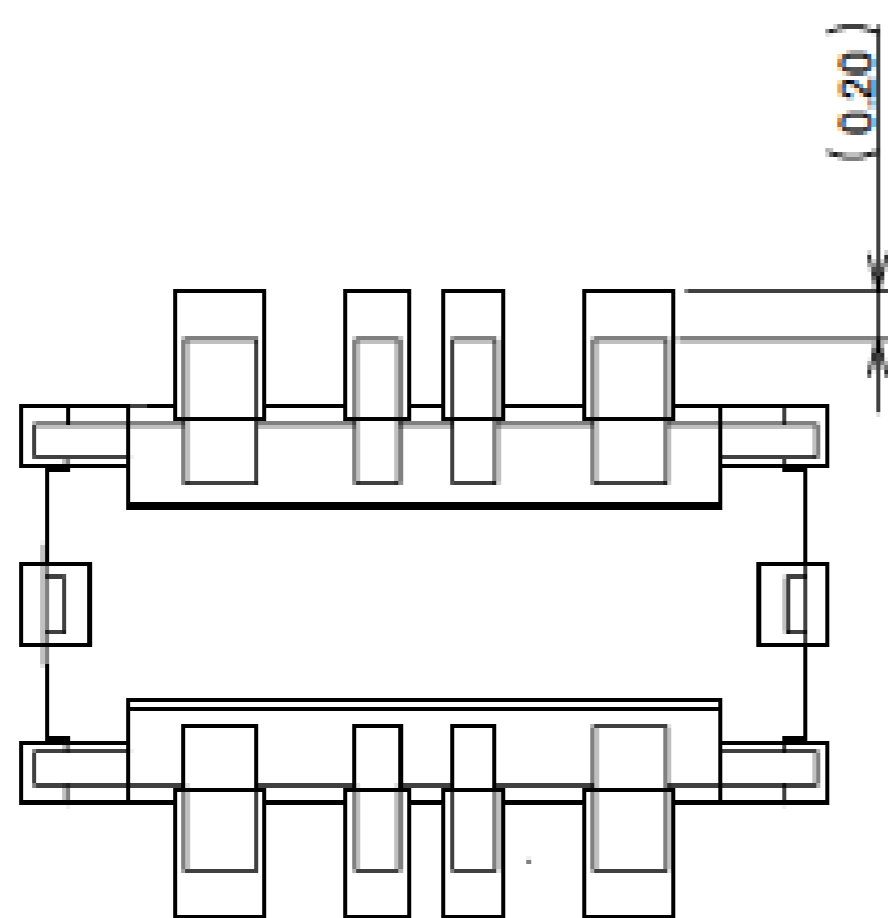
# Plug Assembly

MASK THICKNESS	A	B	C
t=0.08	2.46	0.33	2.60
t=0.1	2.63	0.27	2.40
t=0.12	2.75	0.22	2.25



NOTES.  
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.5





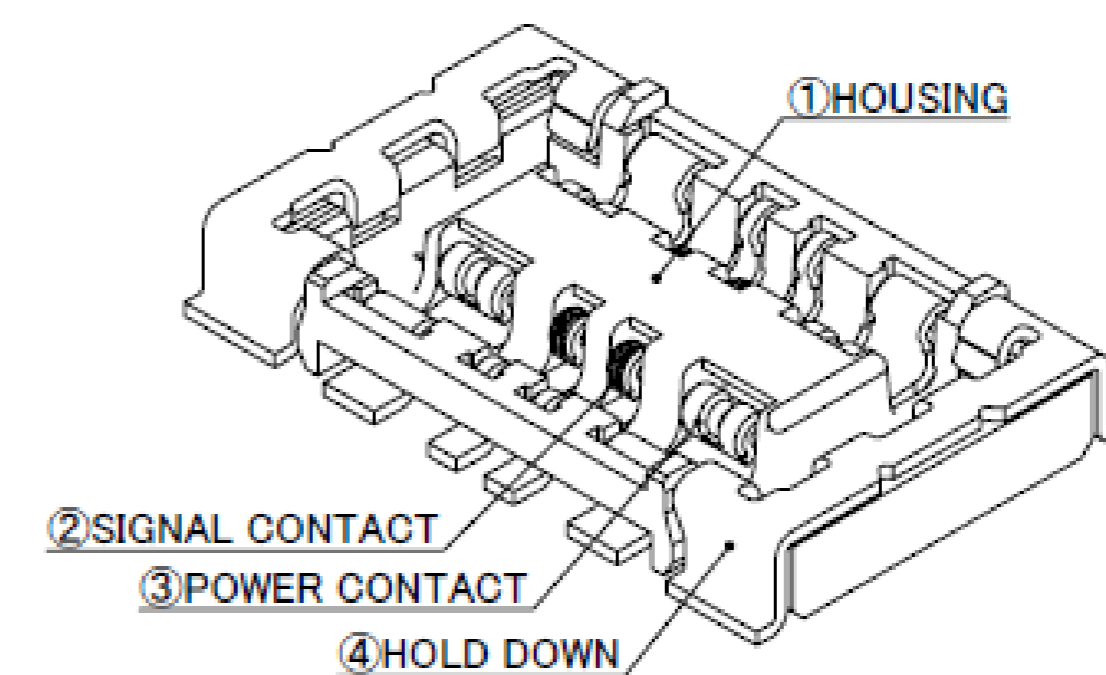
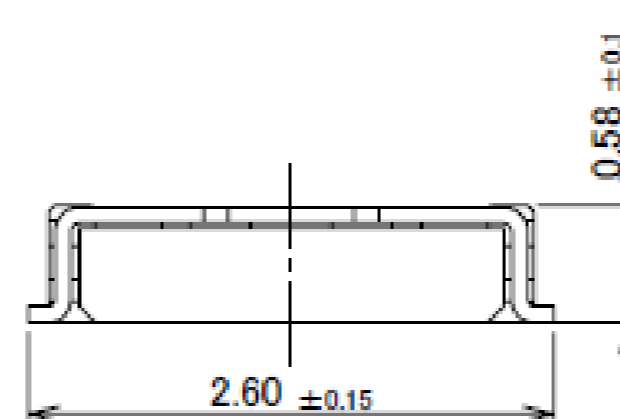
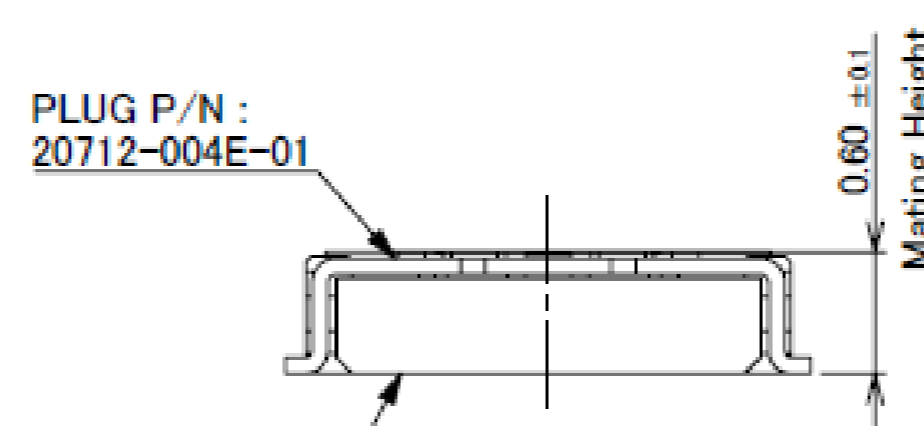
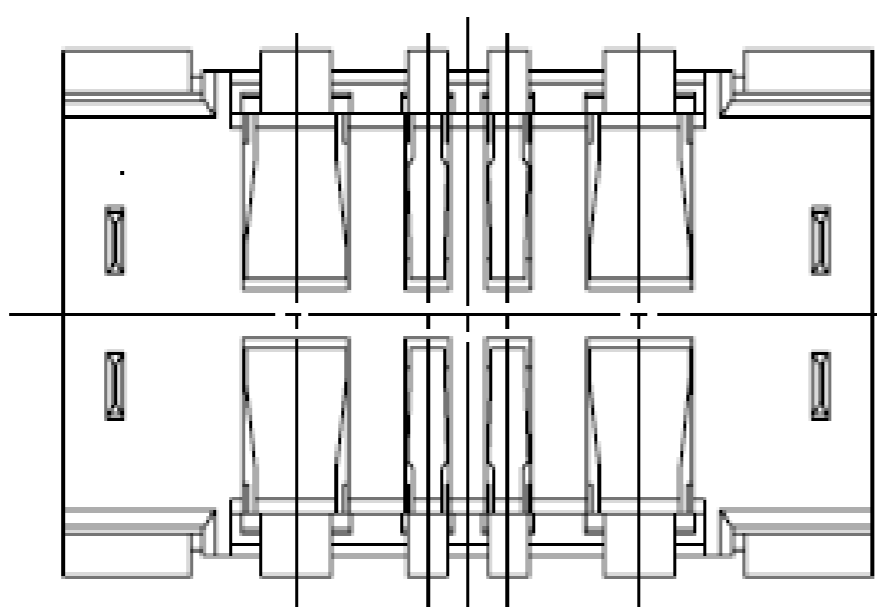
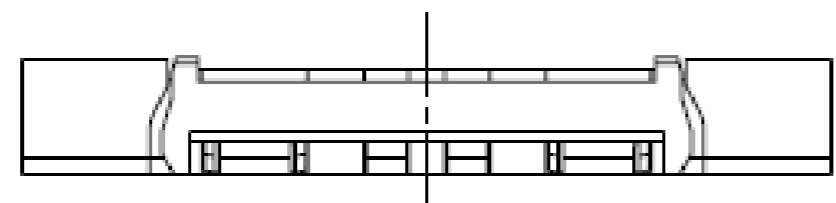
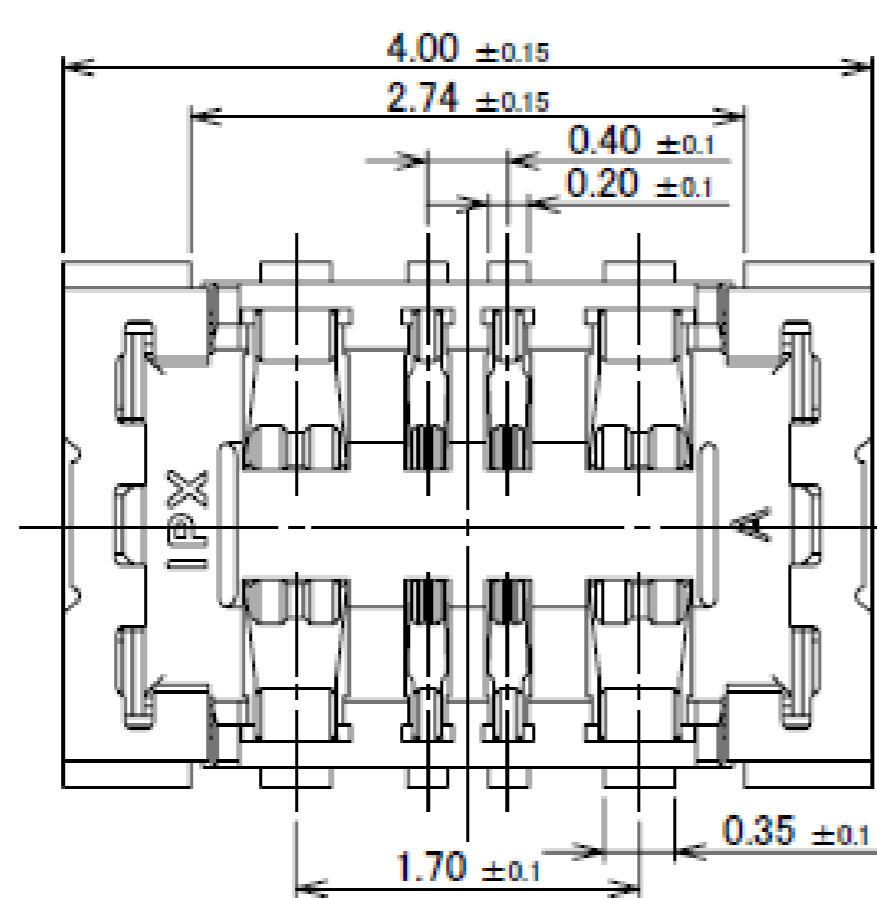
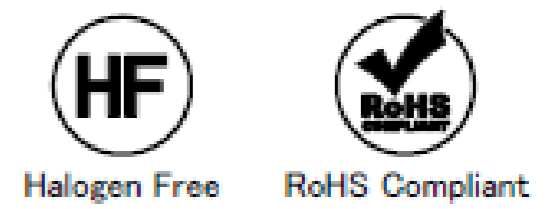
# Plug Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20713-004E-0*
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	1.0A AC/DC (PER CONTACT PIN)/ 4.0A AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	6.0A AC/DC (PER CONTACT PIN)/ 24.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : $\Delta$ 20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 20mohm MAX. / AFTER TEST : $\Delta$ 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,000Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	40N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 10N MIN. AFTER TEST: 7N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-2284
TEST REPORT	TR-16098
PACKING STANDARD	PST-15122 (20K/REEL) PST-16056 (5K/REEL)
INSTRUCTION MANUAL	HIM-16033
APPEARANCE CRITERIA No.	QLS-A***

Rev.5

# Receptacle Assembly

Recommended P/N		20713-004E-01
PART No.	Qty/REEL	
20713-004E-01	20K	
20713-004E-02	5K	

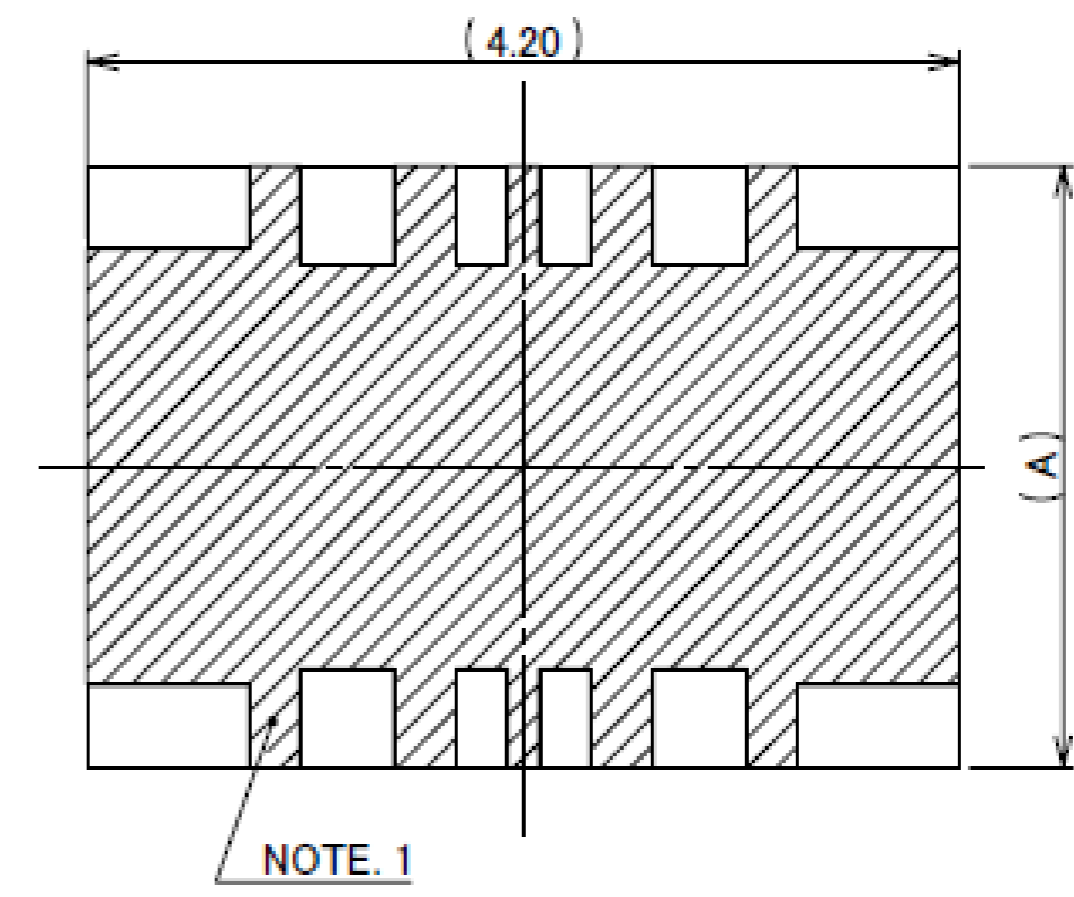
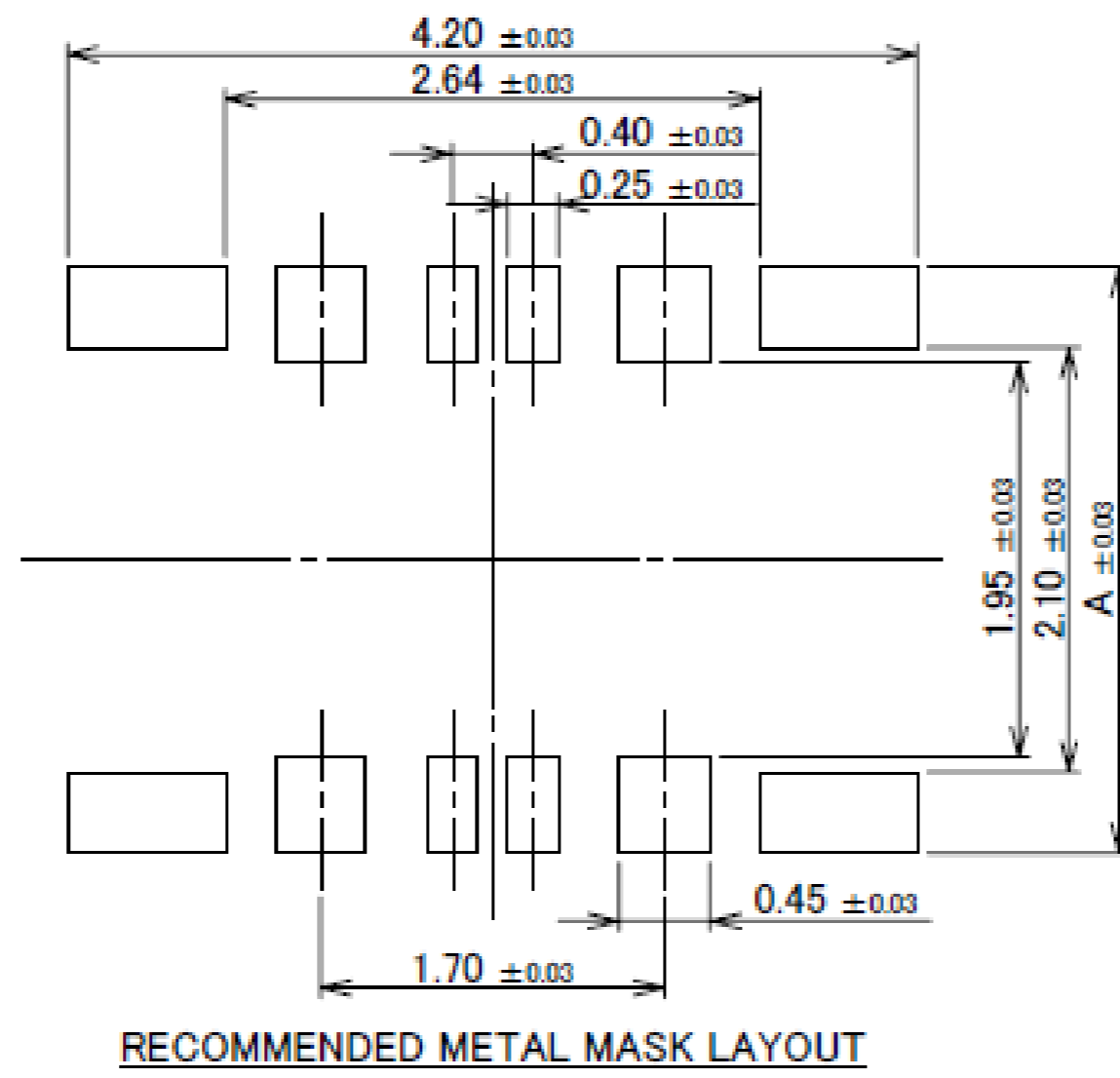
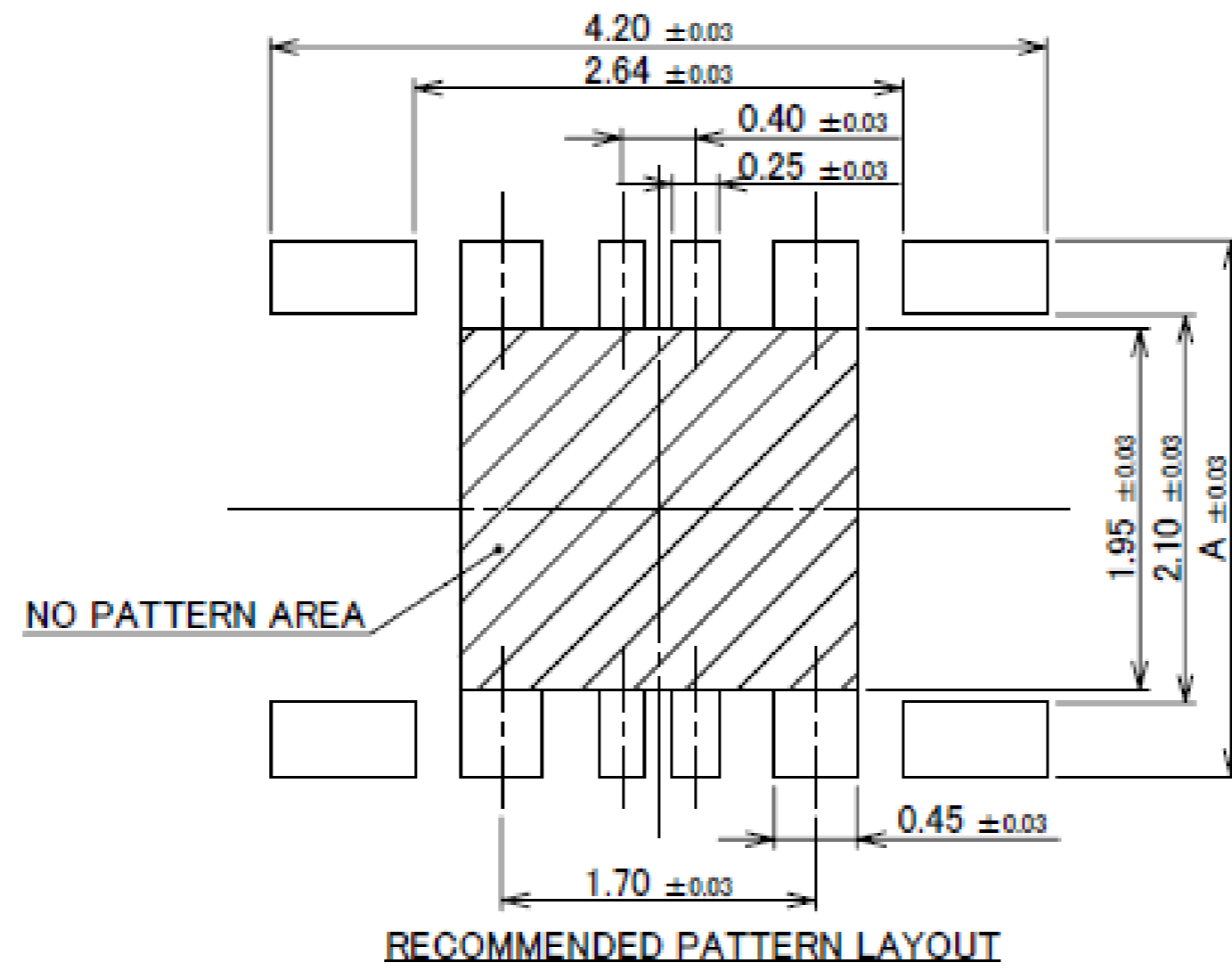


4	HOLD DOWN	PHOSPHOR BRONZE	ALL OVER Ni 1.27 $\mu$ m MIN. SOLDERING PART Au 0.01 $\mu$ m MIN.
3	POWER CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 $\mu$ m MIN. CONTACT PART Au 0.05 $\mu$ m MIN./ SOLDERING PART Au 0.02 $\mu$ m MIN.
2	SIGNAL CONTACT	CORSON ALLOY	ALL OVER Ni 1.27 $\mu$ m MIN. CONTACT PART Au 0.05 $\mu$ m MIN./ SOLDERING PART Au 0.02 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS

Rev.3

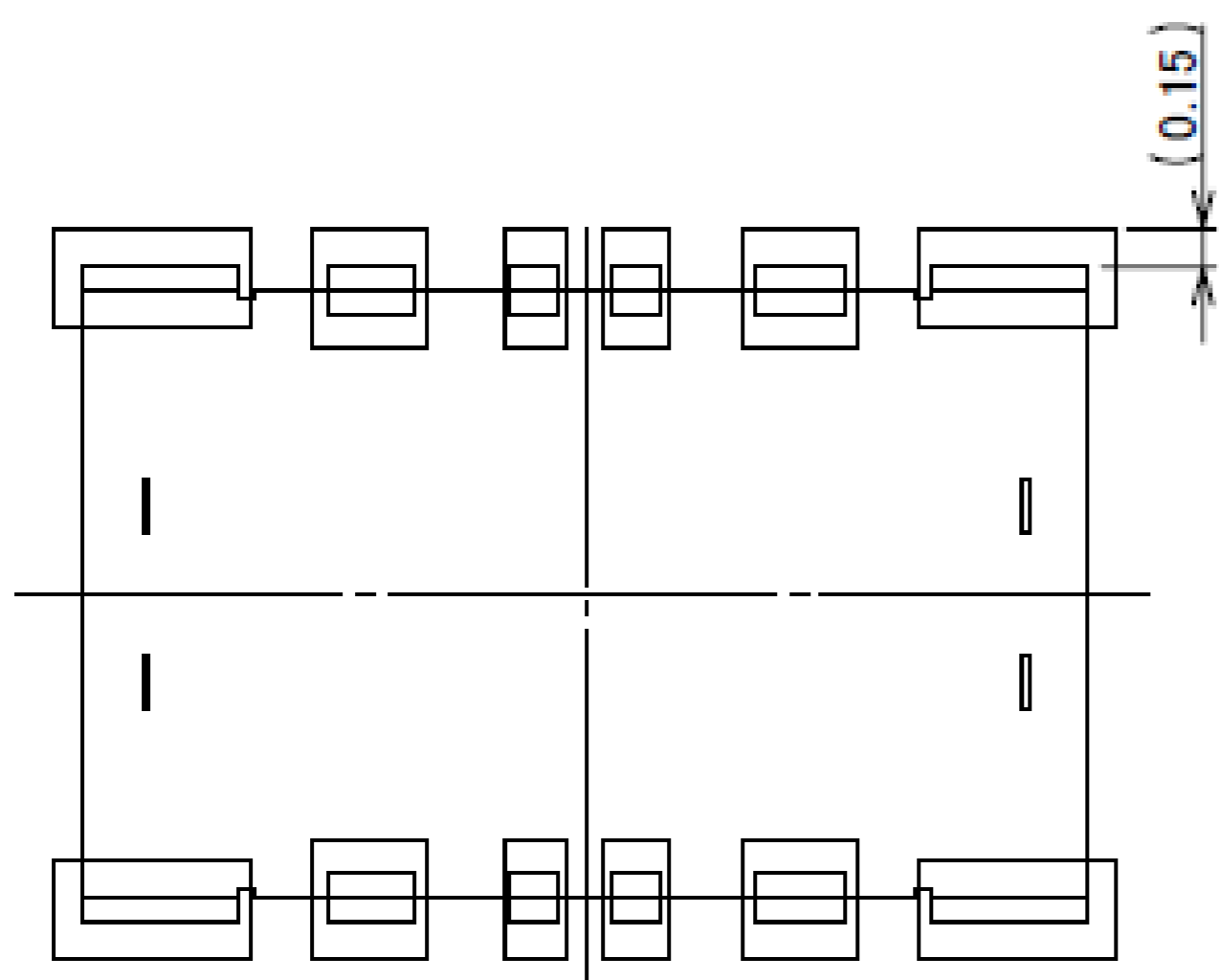
# Receptacle Assembly

MASK THICKNESS	A
t=0.08	2.90
t=0.1	2.74
t=0.12	2.64

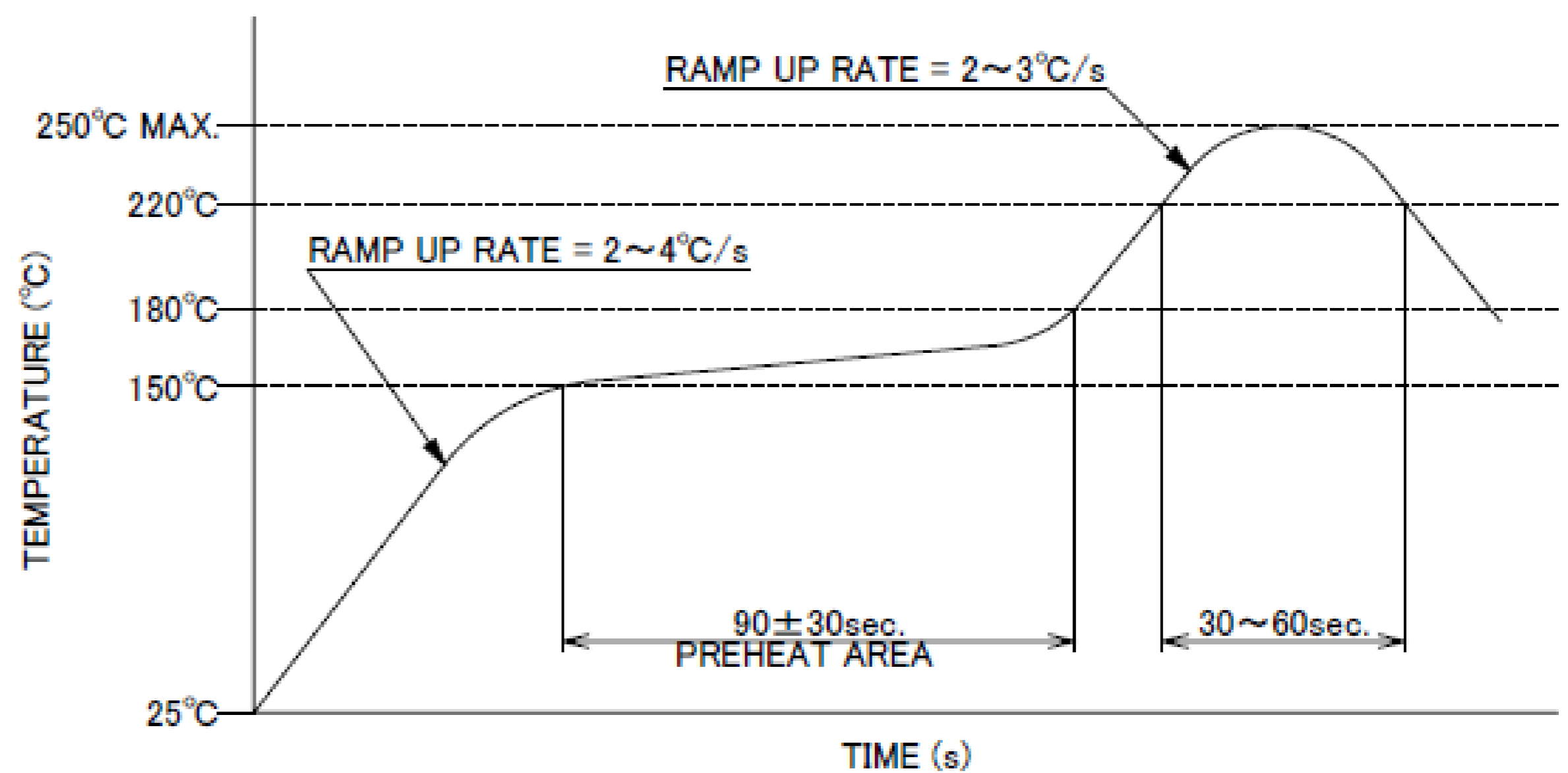


NOTES.  
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.3



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.3

# Receptacle Assembly

ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20712-004E-0*
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	1.0A AC/DC (PER CONTACT PIN)/ 4.0A AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	6.0A AC/DC (PER CONTACT PIN)/ 24.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233~358K(-40°C~+85°C)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : $\triangle$ 20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 20mohm MAX. / AFTER TEST : $\triangle$ 20mohm MAX.
INSULATION RESISTANCE	INITIAL : 1,000Mohm MIN. / AFTER TEST : 100Mohm MIN.
DIELECTRIC WITHSTANDING VOLTAGE	AC250V 1min
DURABILITY	30 CYCLES
MATING FORCE (INITIAL / AFTER TEST)	40N MAX.
UNMATING FORCE (INITIAL / AFTER TEST)	INITIAL: 10N MIN. AFTER TEST: 7N MIN.
COPLANARITY	0.08 MAX.
PRODUCT SPECIFICATION	PRS-2284
TEST REPORT	TR-16098
PACKING STANDARD	PST-15123 (20K/REEL) PST-16057 (5K/REEL)
INSTRUCTION MANUAL	HIM-16033
APPEARANCE CRITERIA No.	QLS-A***

Rev.3



# Custom Connectors Available

 RF Connector

MHF® series



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



Optical Module

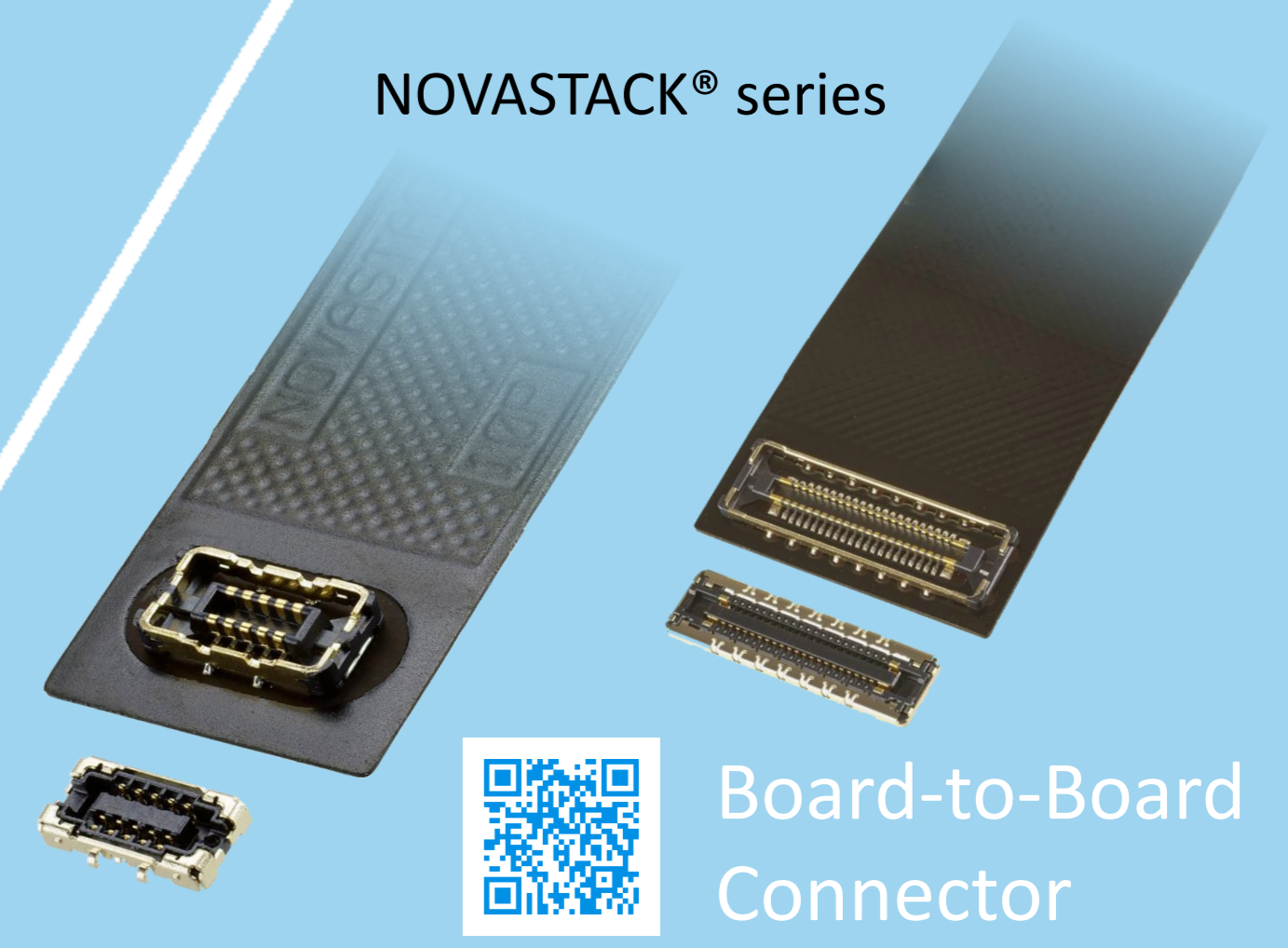
LIGHTPASS® series



NOVASTACK® series



Board-to-Board Connector



Power Connector/  
Terminal

AP series

ISH® series



MINIFLEX® series

EVAFLEX® series



FPC FFC Connector



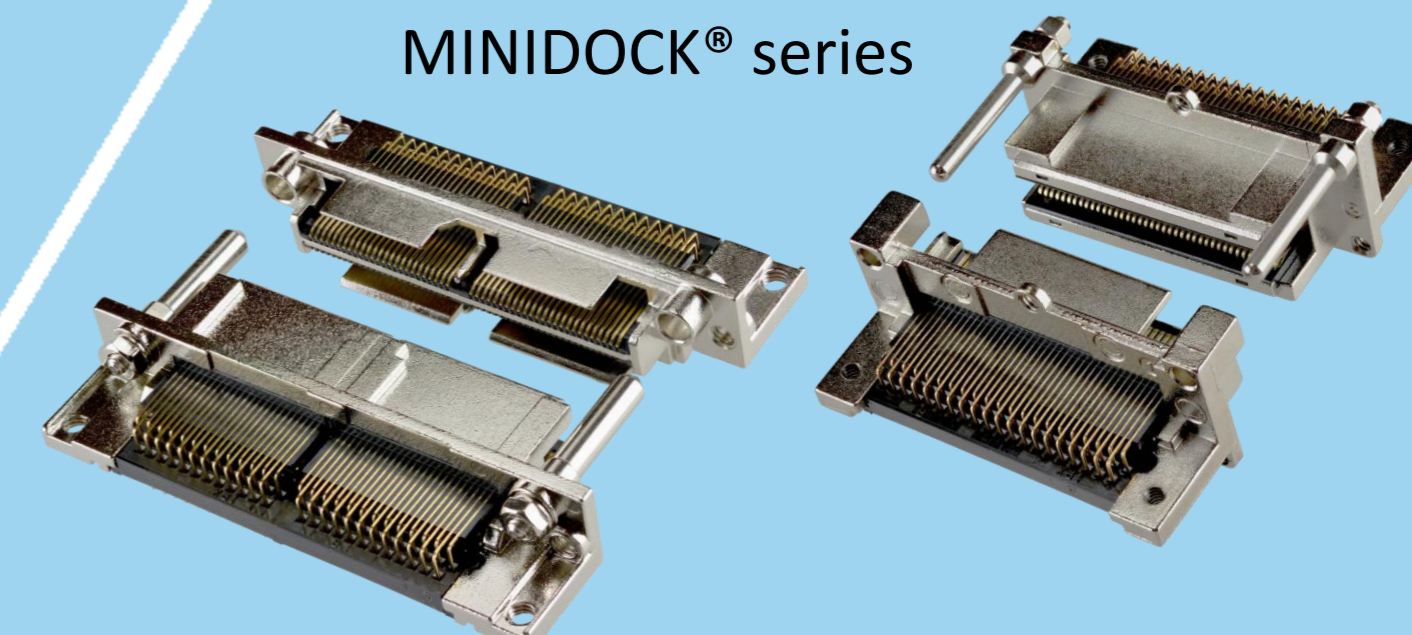
Inquiry



MINIDOCK® series



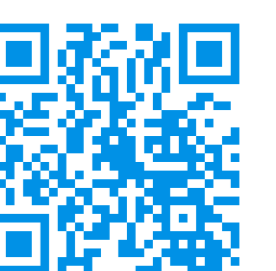
I/O Connector



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