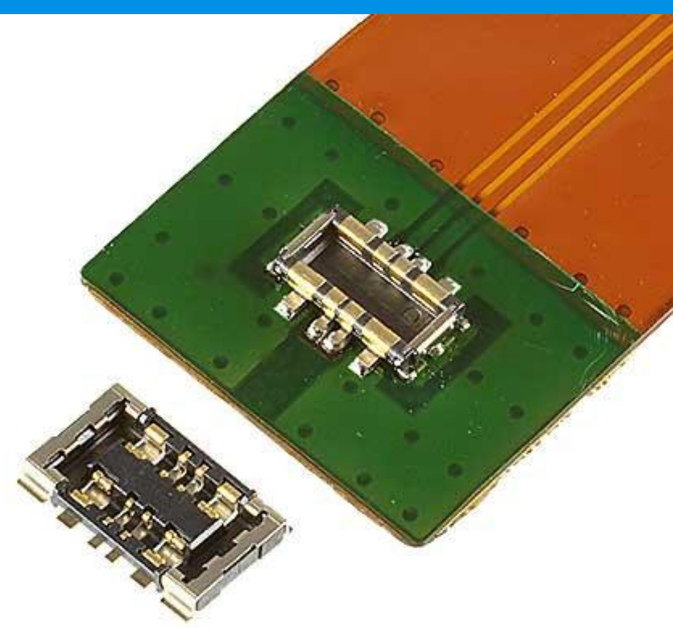
NOVASTACK®-B



嵌合高さ 0.6 mm、0.4 mm ピッチ、6.0 A（x4）の高電流対応基板対基板コネクタ

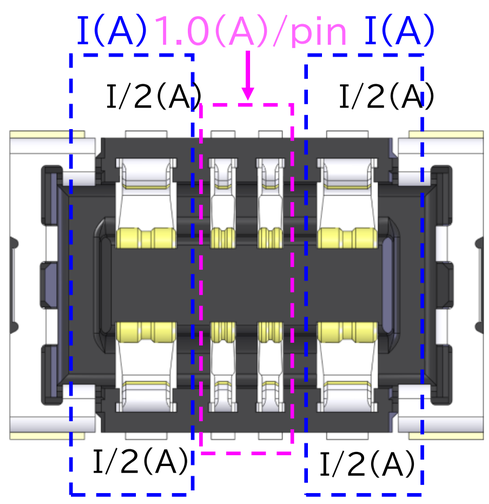
Product Specifications:

Contact Pitch		0.4 mm (signal), 1.7 mm (power)
Contact Mating Length		0.1 mm
Mated Size	Height	0.6 +/- 0.1 mm
	Width	3.20 + (0.4 x pin count / 2) mm
	Depth	2.6 mm
Current Rating	Signal	1.0 A/pin
	Power	6.0 A/pin x 4
Available Pin Count	Signal	4
	Power	4

*上記に記載のない芯数、および、対応可能芯数外の芯数につきましては、お問い合わせください。

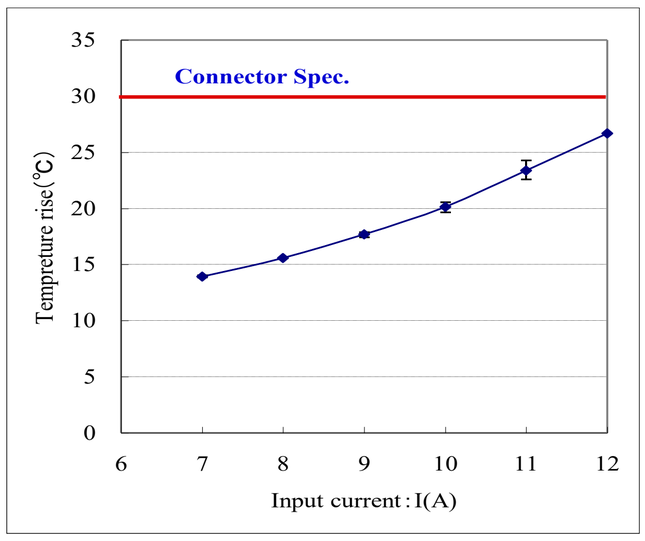
6.0 A x 4 pin（USB Power Delivery）の高電流対応

温度上昇SPEC：⊿T=30 ℃ MAX（12.0 A）

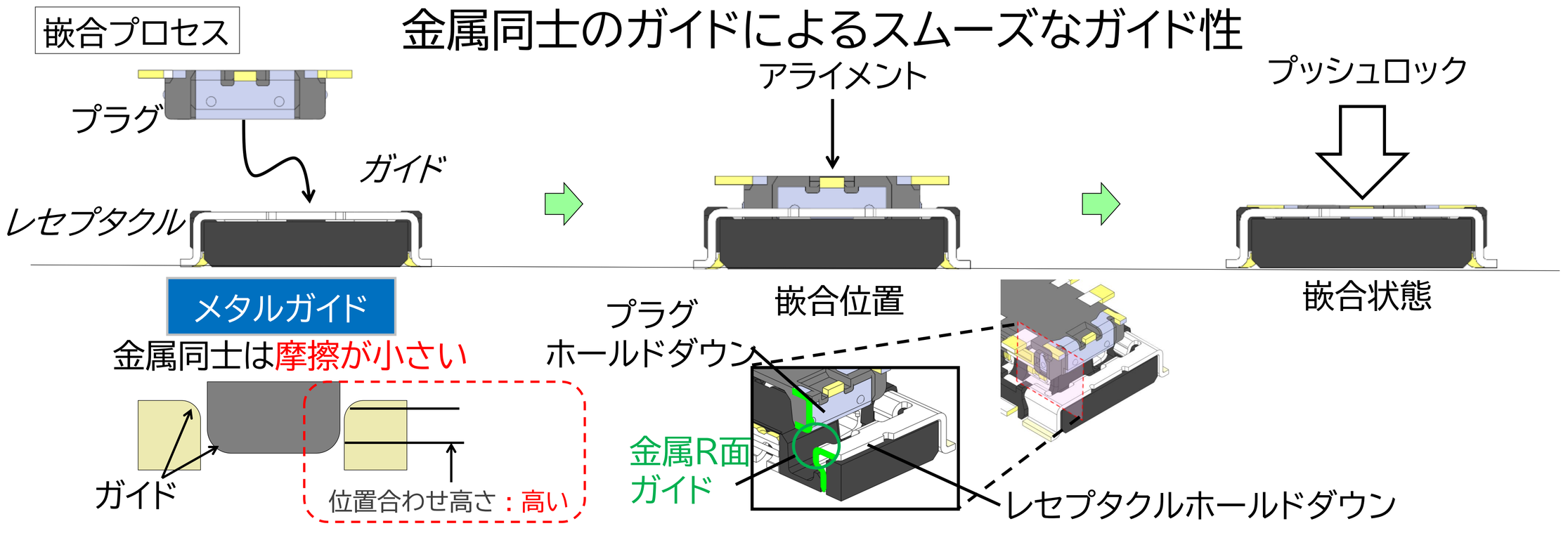
印加電流	電源ピン=7.0~12.0 A / 信号ピン:1.0 A
インプット	

<テスト結果>

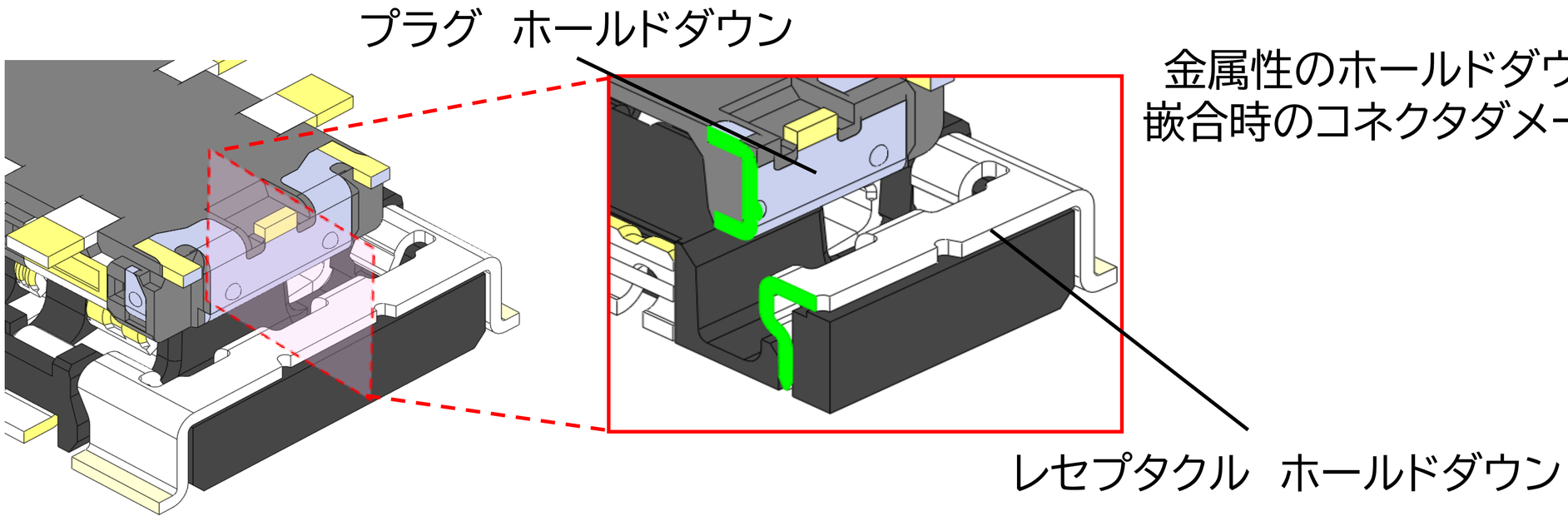
12 A印加時温度変化=27.1℃
12 Aを規格値とする。



メタルガイドによるスムーズな嵌合作業性を実現



ホールドダウンによる高い堅牢性



Component Parts Details

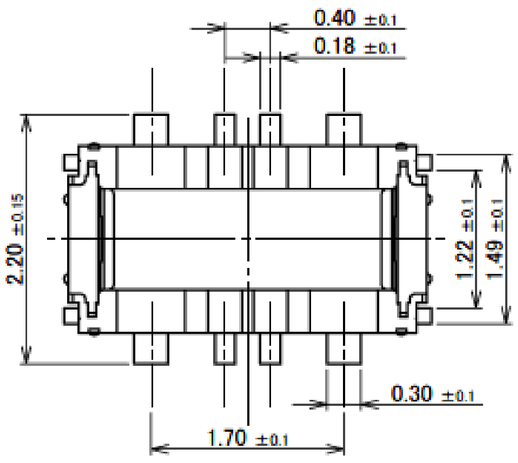
Rev.#

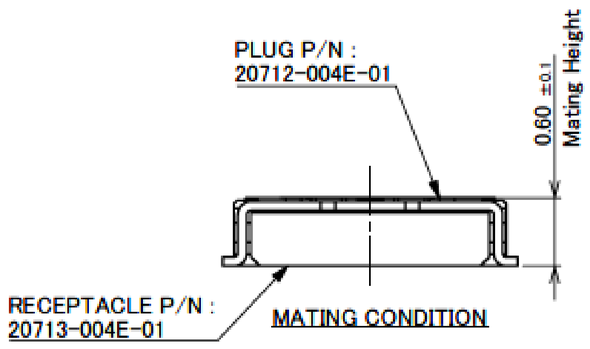
Plug Assembly

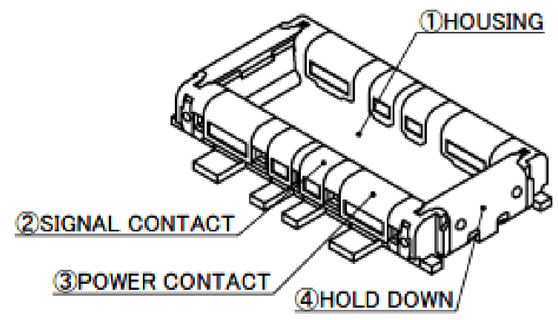
Recommended P/N	20712-004E-01
PART No.	
20712-004E-01	

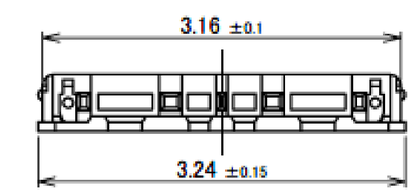
Halogen Free

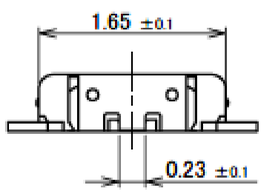
RoHS Compliant

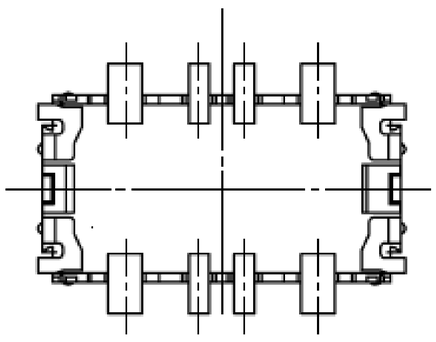










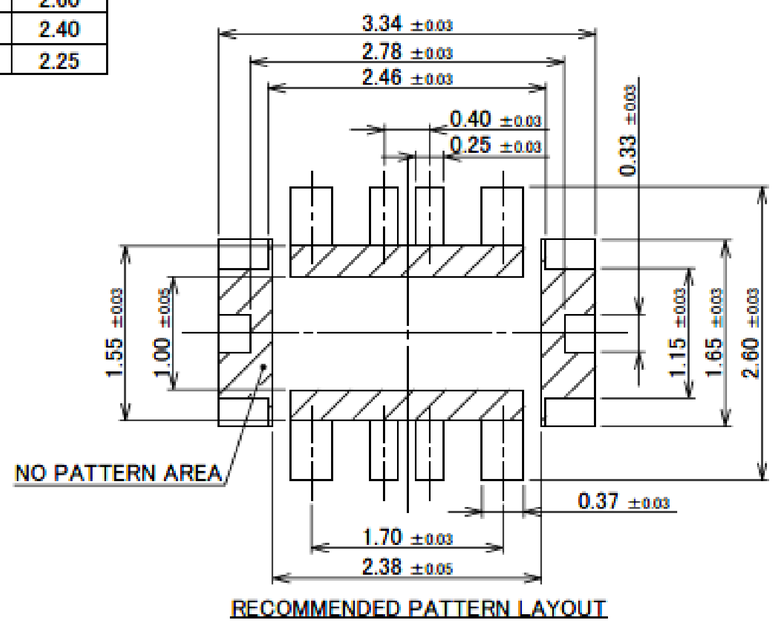


NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	HOLD DOWN	PHOSPHOR BRONZE	ALL OVER Ni 1.27μm MIN. SOLDERING PART Au 0.02μm MIN.
3	POWER CONTACT	CORSON ALLOY	ALL OVER Ni 1.27μm MIN. CONTACT PART Au 0.05μm MIN./ SOLDERING PART Au 0.02μm MIN.
2	SIGNAL CONTACT	CORSON ALLOY	ALL OVER Ni 1.27μm MIN. CONTACT PART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

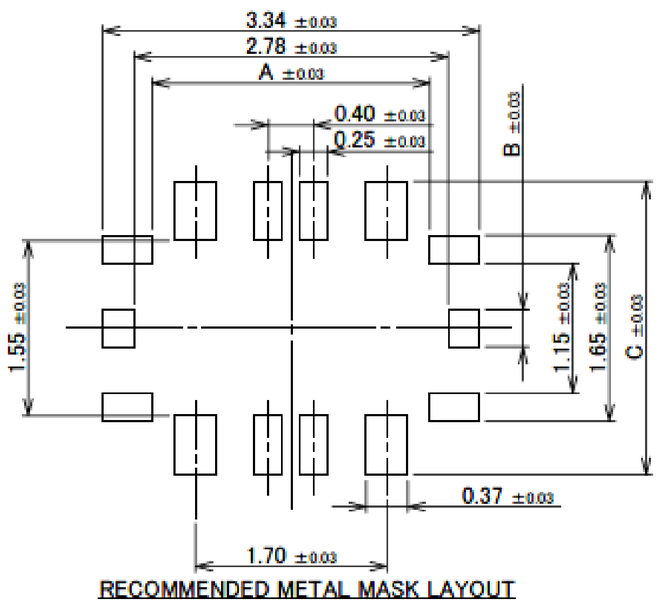
Rev.7

Plug Assembly

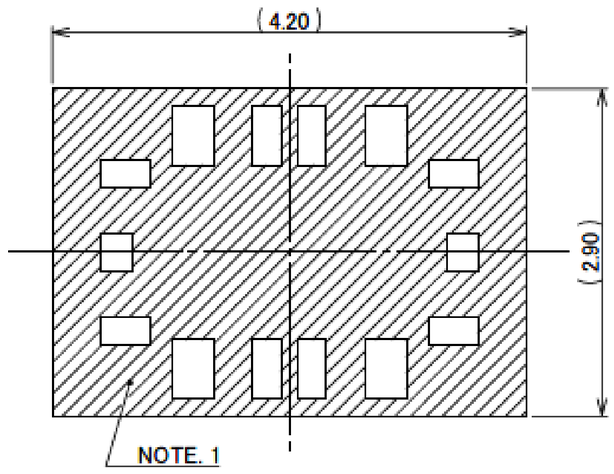
MASK THICKNESS	A	B	C
t=0.08	2.46	0.33	2.60
t=0.1	2.63	0.27	2.40
t=0.12	2.75	0.22	2.25



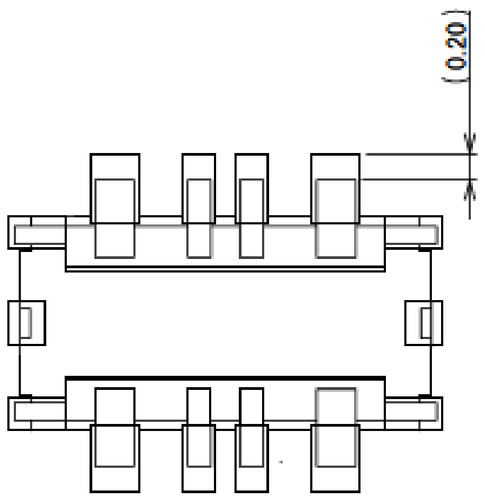
RECOMMENDED PATTERN LAYOUT



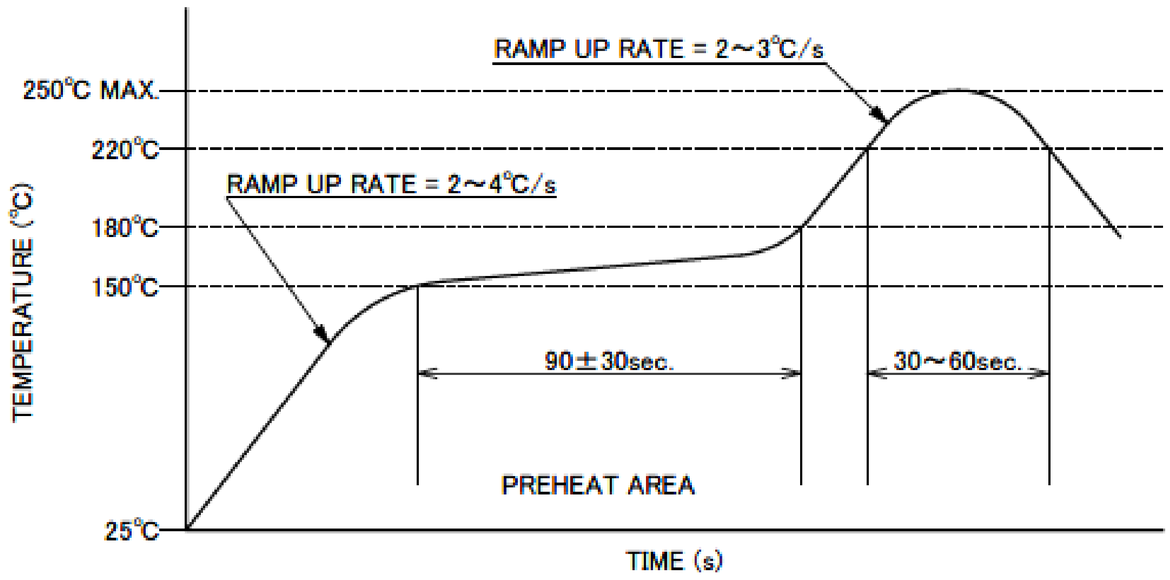
RECOMMENDED METAL MASK LAYOUT



NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

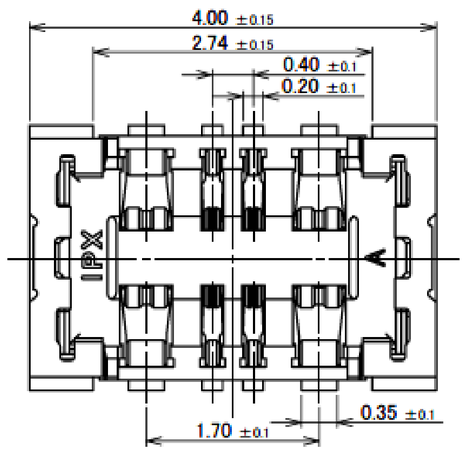
Plug Assembly

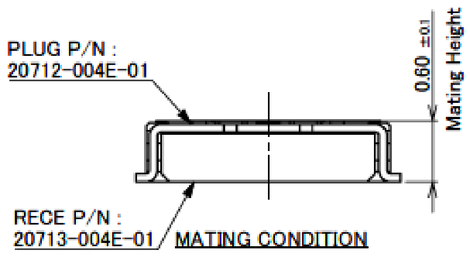
ITEMS	SPECIFICATION
APPLICABLE CONNECTOR PART No.	20713-004E-0*
RATING VOLTAGE	50V AC (PER CONTACT PIN)
RATING AMPERAGE (FOR SIGNAL CONTACT)	1.0A AC/DC (PER CONTACT PIN)/ 4.0A AC/DC(TOTAL)
RATING AMPERAGE (FOR POWER CONTACT)	6.0A AC/DC (PER CONTACT PIN)/ 24.0A AC/DC(TOTAL)
OPERATING TEMPERATURE	233～358K(-40℃～+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : ⊿20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 20mohm MAX. / AFTER TEST : ⊿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***

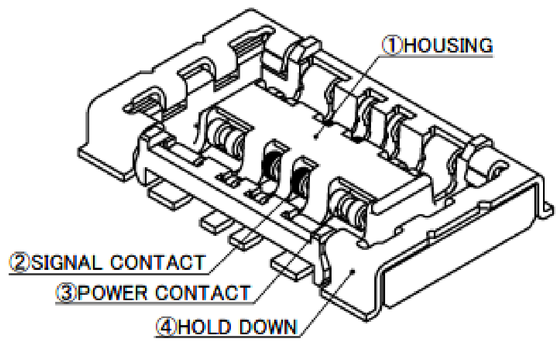
Receptacle Assembly

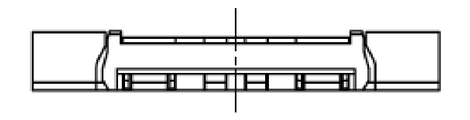
Recommended P/N	20713-004E-01
PART No.	
20713-004E-01	

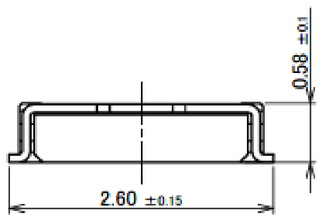
HF Halogen Free RoHS Compliant

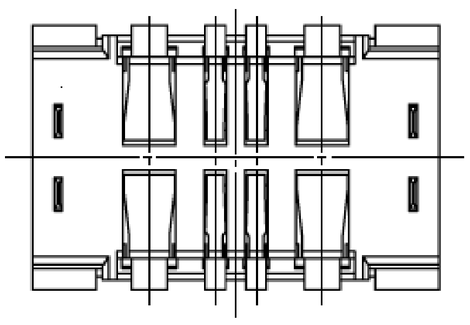








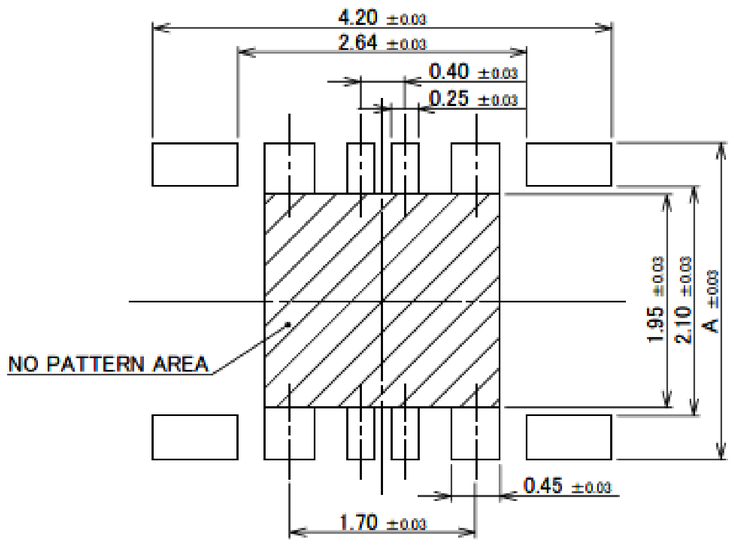




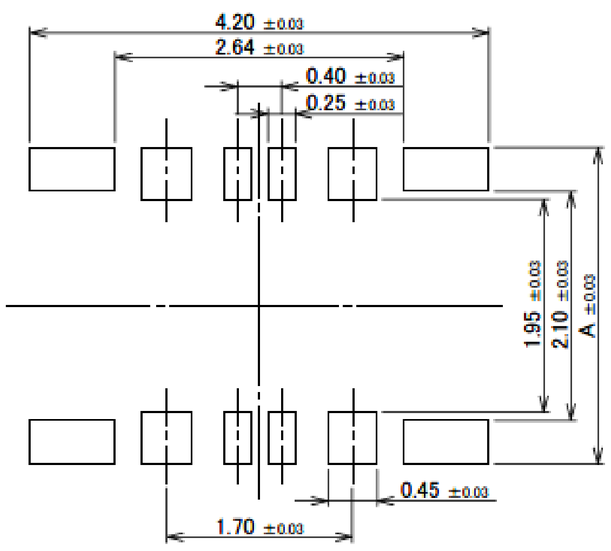
NO.	DISCRIPTION	MATERIAL	FINISH , REMARKS
4	HOLD DOWN	PHOSPHOR BRONZE	ALL OVER Ni 1.27μm MIN. SOLDERING PART Au 0.01μm MIN.
3	POWER CONTACT	CORSON ALLOY	ALL OVER Ni 1.27μm MIN. CONTACT PART Au 0.05μm MIN./ SOLDERING PART Au 0.02μm MIN.
2	SIGNAL CONTACT	CORSON ALLOY	ALL OVER Ni 1.27μm MIN. CONTACT PART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

Receptacle Assembly

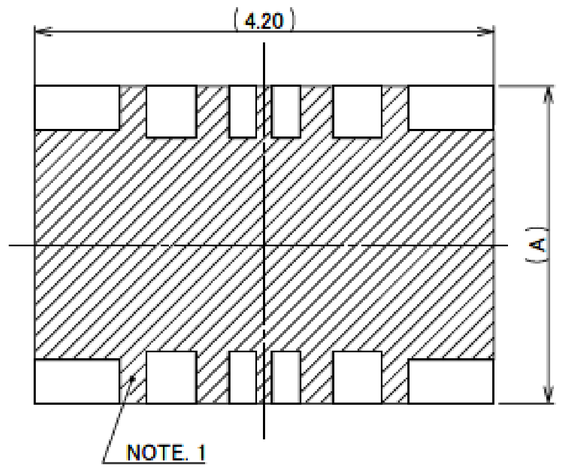
MASK THICKNESS	A
t=0.08	2.90
t=0.1	2.74
t=0.12	2.64



RECOMMENDED PATTERN LAYOUT

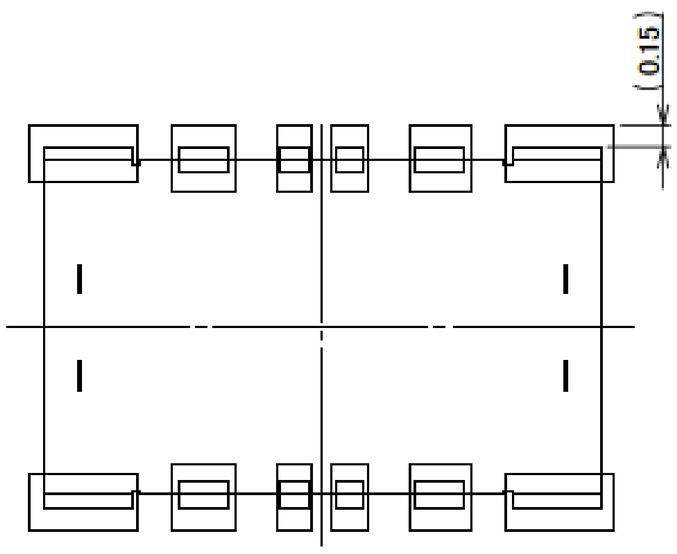


RECOMMENDED METAL MASK LAYOUT

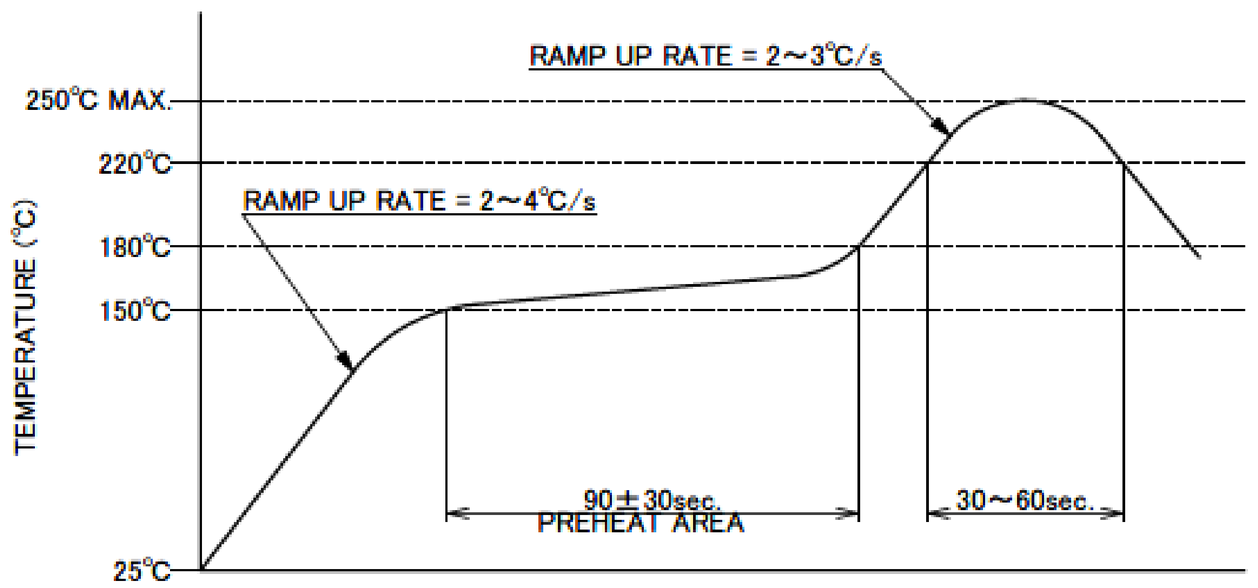


NOTES.
1. THIS AREA CANNOT MOUNT ANOTHER COMPONENTS.

Rev.4



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



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

Rev.4

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℃～+85℃)
OPERATING HUMIDITY	85% MAX.(NON-CONDENSING)
CONTACT RESISTANCE (FOR SIGNAL CONTACT)	INITIAL : 40mohm MAX. / AFTER TEST : ⊿20mohm MAX.
CONTACT RESISTANCE (FOR POWER CONTACT)	INITIAL : 20mohm MAX. / AFTER TEST : ⊿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***

Custom Connectors Available

RF Connectors

MHF® series

Micro-Coaxial/Twinaxial Connectors

CABLINE® series

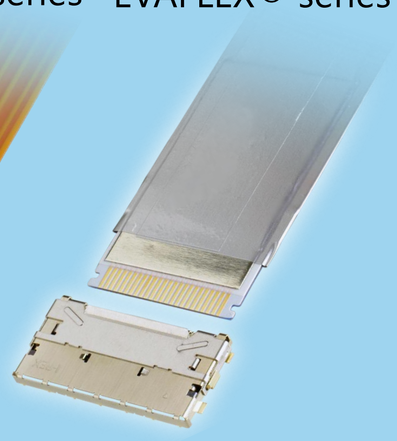
Wire-to-Board Connectors/ Terminals

AP series

ISH® series

MINIFLEX® series

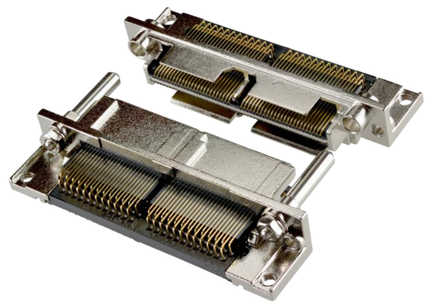
EVAFLEX® series



FPC/FFC Connectors

NOVASTACK® series

MINIDOCK™ series



Board-to-Board Connectors

Inquiry

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