

# MHF<sup>®</sup>-SW23

RF switch connector with a 2.3 x 2.3 mm footprint, supports to 11 GHz

**Product Specifications:**

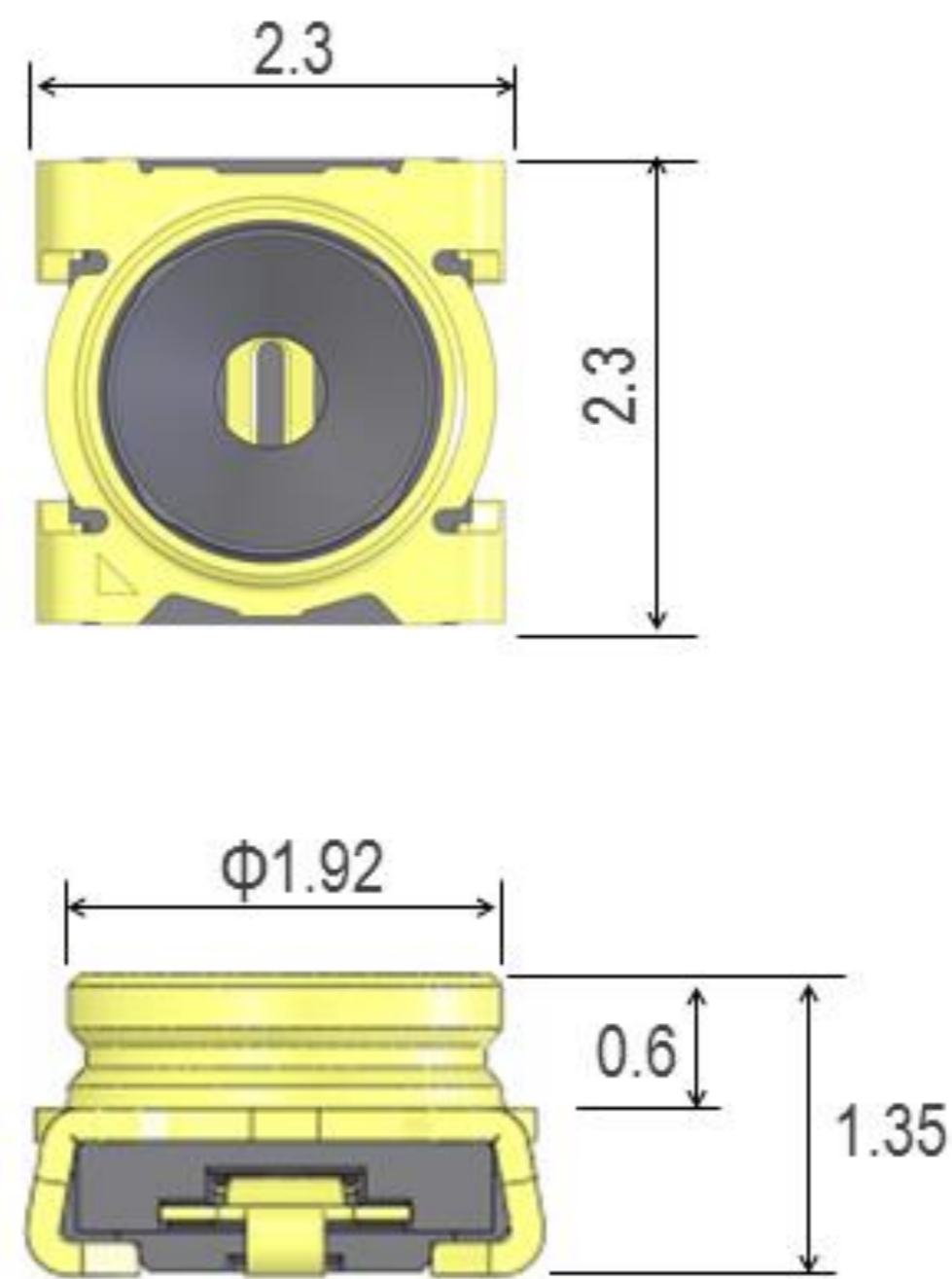
Mated Height (mm max.)	1.35	
Rece. SMT Size (mm)	2.3 x 2.3	
Applicable Frequency	DC ~ 11 GHz	
Characteristic Impedance	50 ohm	
VSWR (L=100 mm)	3 GHz~6 GHz	1.3 max.
	6 GHz~11 GHz	1.5 max.

**Applicable Standards (Reference Only):**

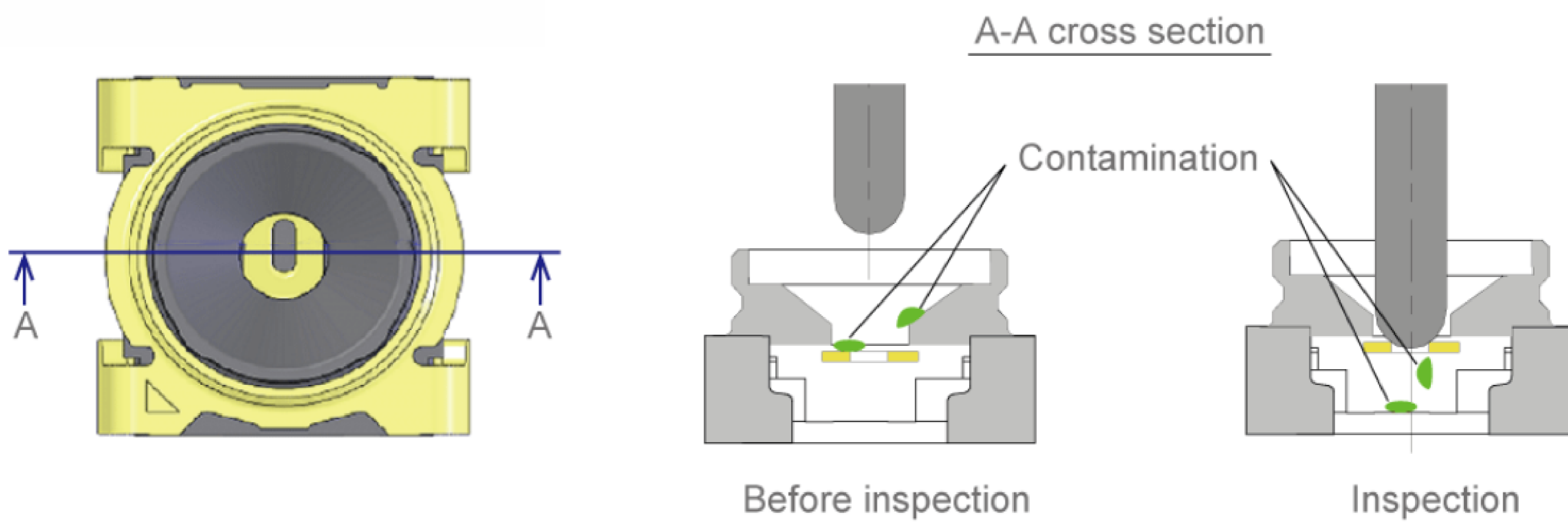
5G sub-6, Wi-Fi 6, LTE/LTE-Advanced, LPWA, Bluetooth, GPS



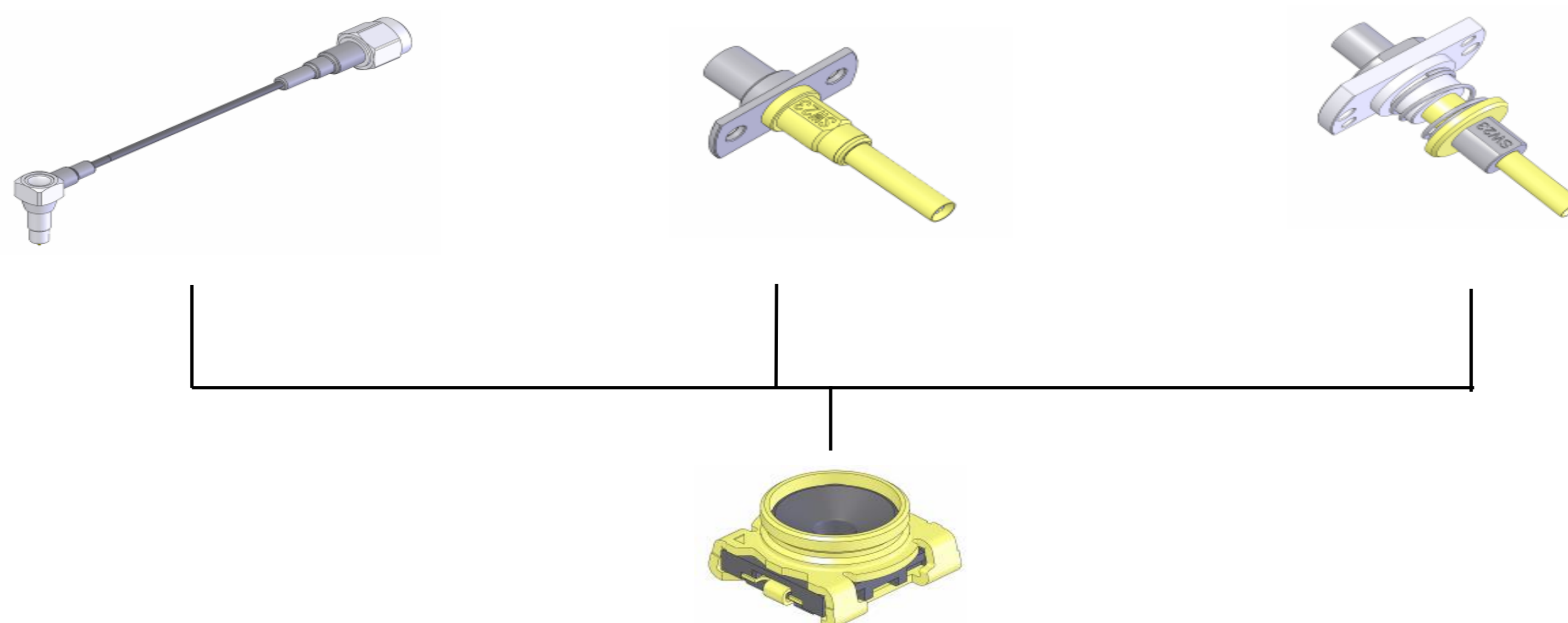
▶ **2.3 x 2.3 mm excellent inspection connector for RF modules with on-board antennas**



▶ **Contaminant-resistant design prevents disruption**



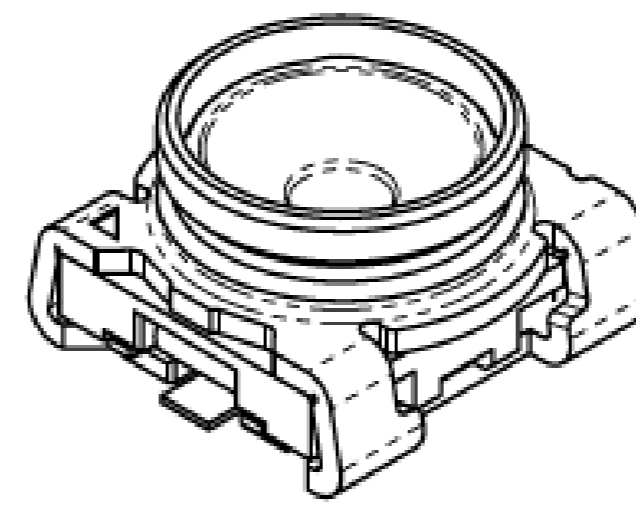
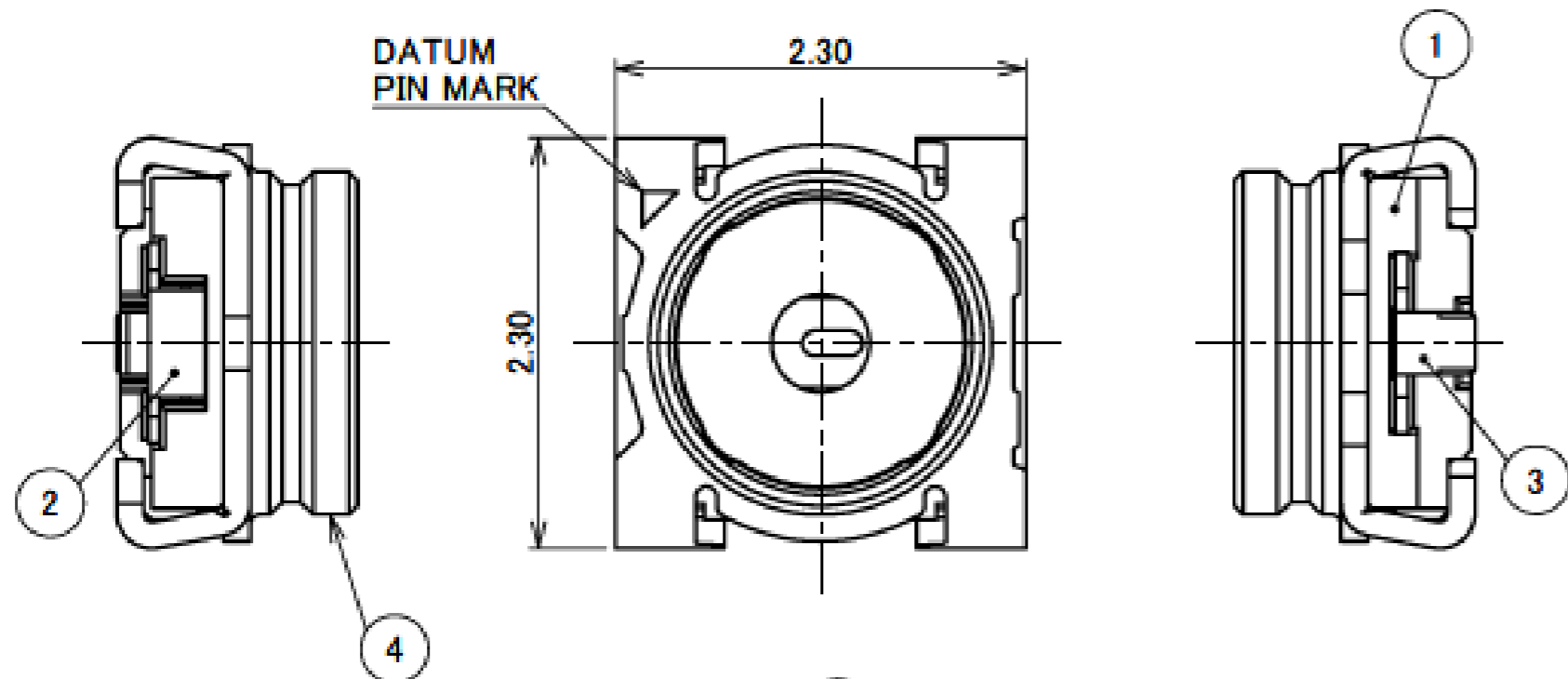
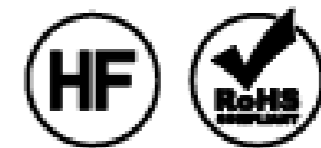
▶ **Variety of inspection probes available**



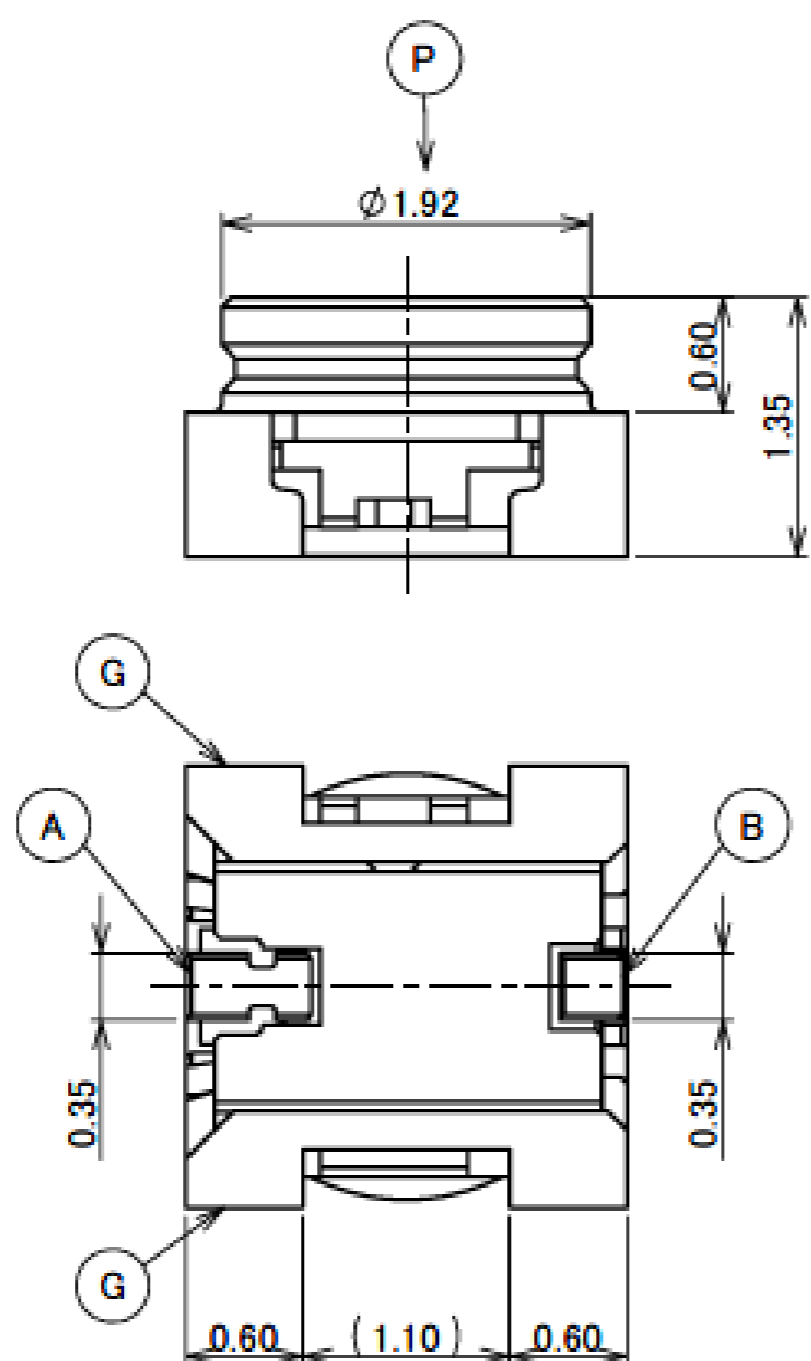
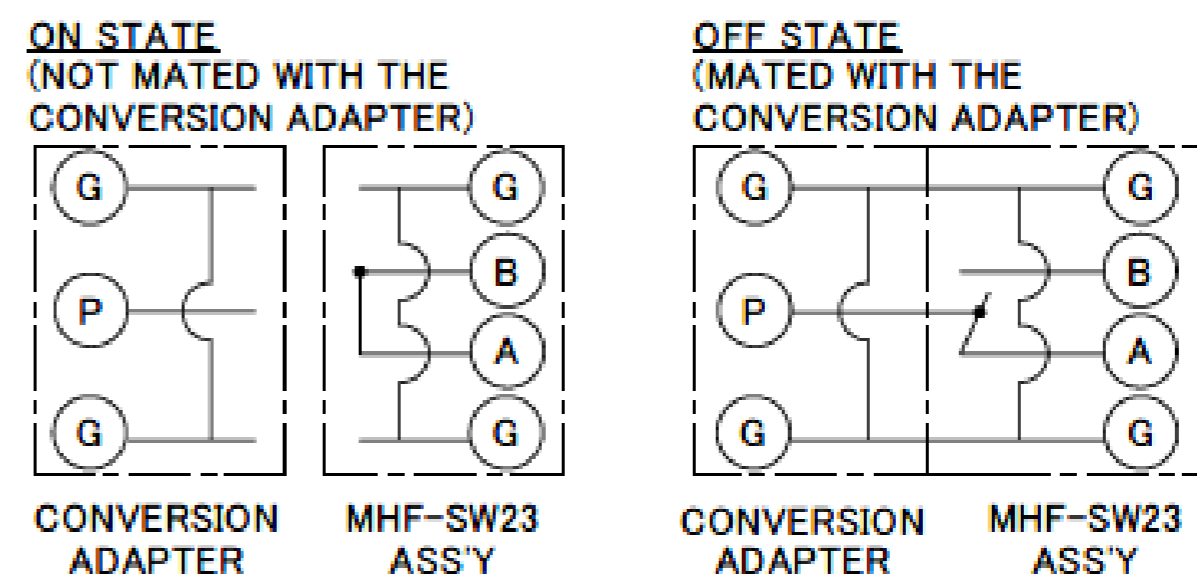
# Component Parts Details

## MHF<sup>®</sup>-SW23

Recommended P/N		20549-001E
PART NO.	PACKING QUANTITY	
20549-001E	10,000/REEL	
20549-001E-01	2,500/REEL	



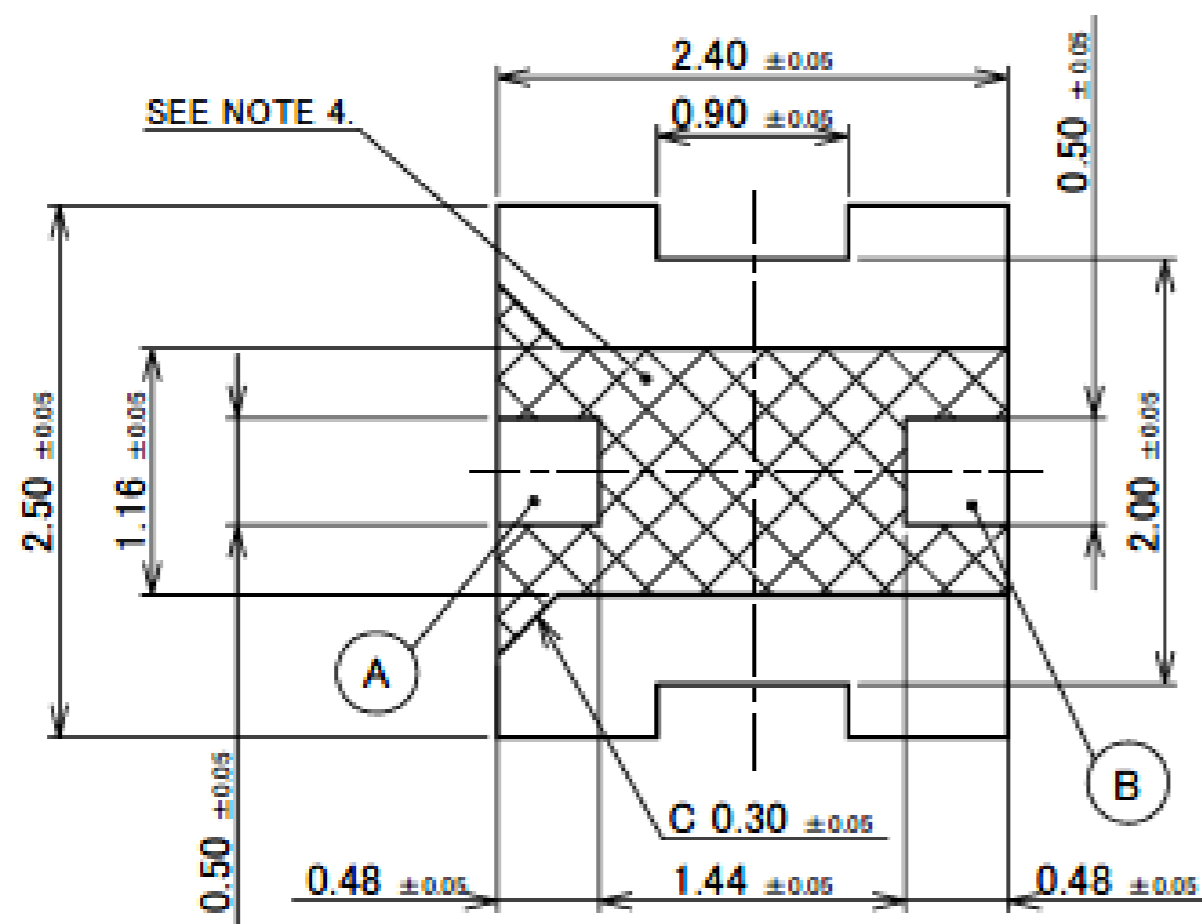
NOTES.  
 1. COPLANARITY : 0.1MAX.  
 2. RoHS COMPLIANT.  
 3. CIRCUIT OF SWITCH



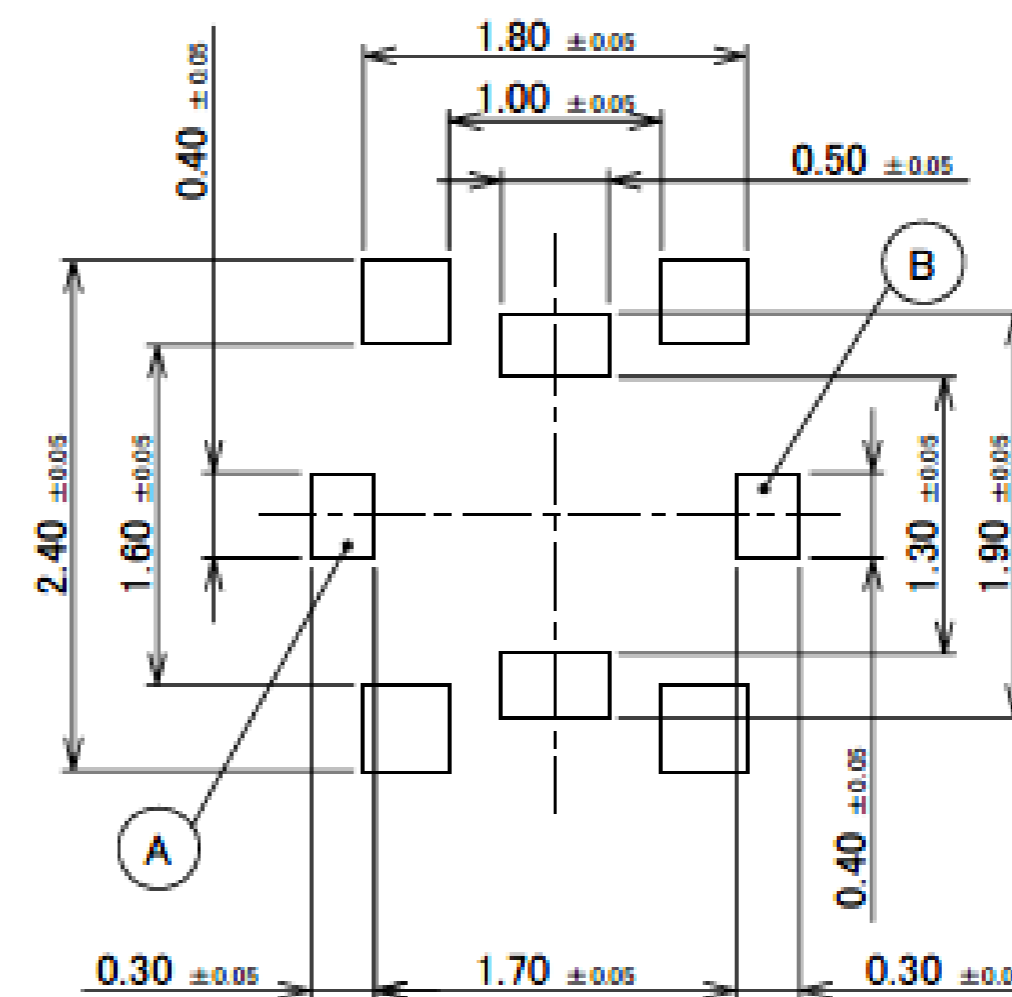
NO.	DESCRIPTION	MATERIAL	FINISH , REMARKS
4	GROUND CONTACT	PHOSPHOR BRONZE	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART Au 0.02 $\mu$ m MIN. SOLDERING PART Au 0.02 $\mu$ m MIN.
3	CONTACT B	PHOSPHOR BRONZE	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART Au 0.2 $\mu$ m MIN. SOLDERING PART Au 0.02 $\mu$ m MIN.
2	CONTACT A	CORSON ALLOY	ALL OVER Ni 1.00 $\mu$ m MIN. CONTACT PART Au 0.2 $\mu$ m MIN. SOLDERING PART Au 0.02 $\mu$ m MIN.
1	HOUSING	LCP	UL94V-0, BLACK

ITEMS	SPECIFICATION	
CONNECTOR PART NO.	20549-001E	20549-001E-01
RATING POWER	2 W	
RATING FREQUENCY	DC ~ 11.0 GHz	
OPERATING TEMPERATURE	233 ~ 358 K (-40°C~+85°C)	
OPERATING HUMIDITY	90% MAX. (NON-CONDENSING)	
VSWR	1.2 MAX. AT DC ~ 2.5 GHz, 1.3 MAX. AT 2.5 GHz ~ 6.0 GHz, 1.5 MAX. AT 6.0 GHz ~ 11.0 GHz	
MAIN CONTACT RESISTANCE	100 mohm MAX	
GROUND CONTACT RESISTANCE	100 mohm MAX	
INSULATION RESISTANCE	INITIAL: 1000 Mohm MIN. / AFTER TEST: 10 Mohm MIN.	
DIELECTRIC WITHSTANDING VOLTAGE	100 V AC, 1 MINUTE	
DURABILITY	100 CYCLES	
PRODUCT SPECIFICATION	PRS-1672	
TEST REPORT	TR-12041	
PACKING STANDARD	300-991	PST-12025
INSTRUCTION MANUAL	HIM-13004	
APPEARANCE CRITERIA No.	QLS-A***	

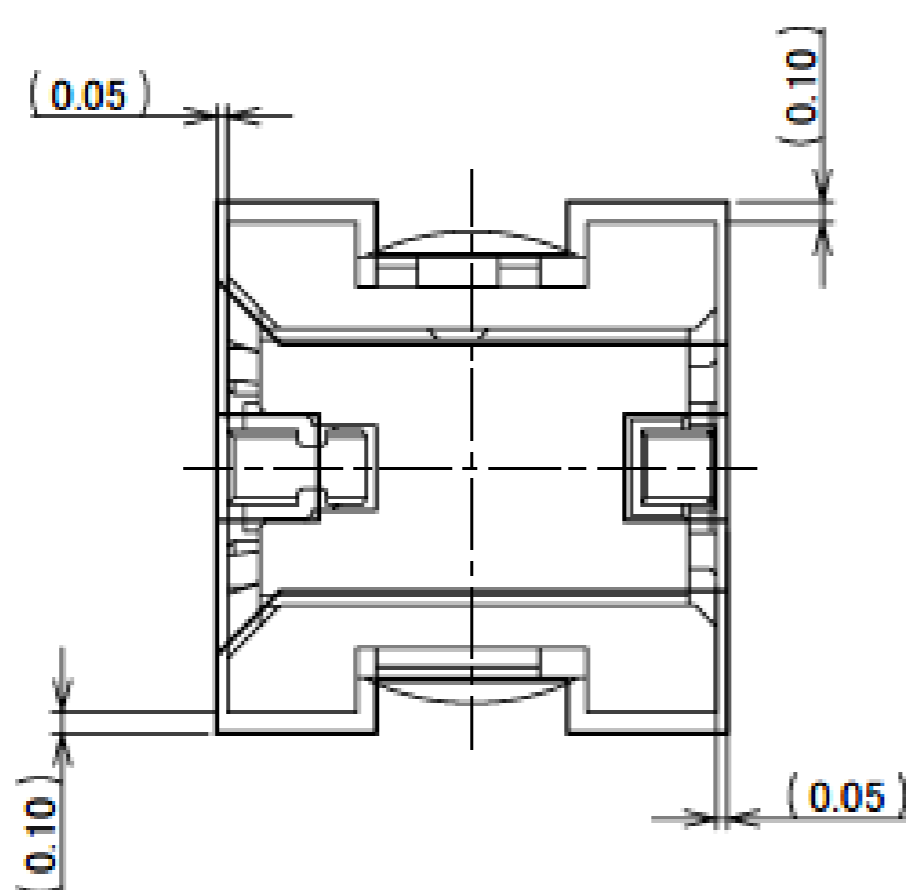
Rev.9



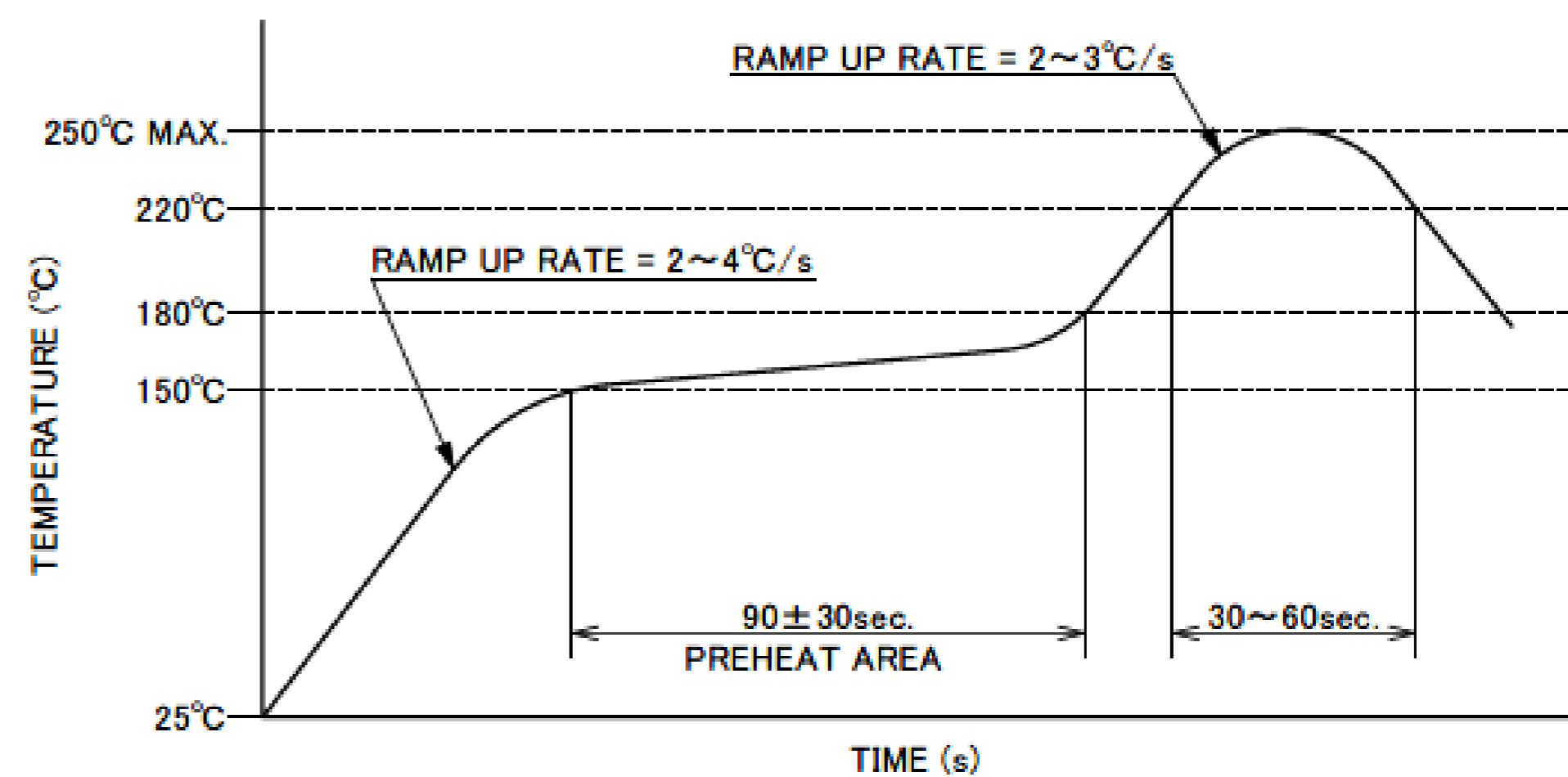
RECOMMENDED FOOTPRINT PATTERN



MASK THICKNESS: t = 0.1  
METAL MASK



CONNECTOR ON RECOMMENDED FOOTPRINT PATTERN



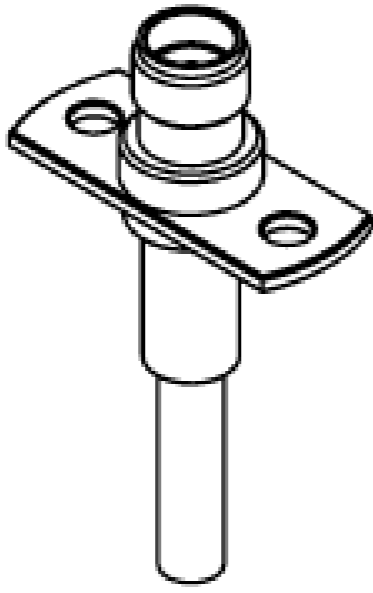
REFLOW TEMPERATURE PROFILE  
SENJU METAL INDUSTRY CO., LTD. : M705-SHF(Sn96.5 Ag3.0 Cu0.5)

NOTES

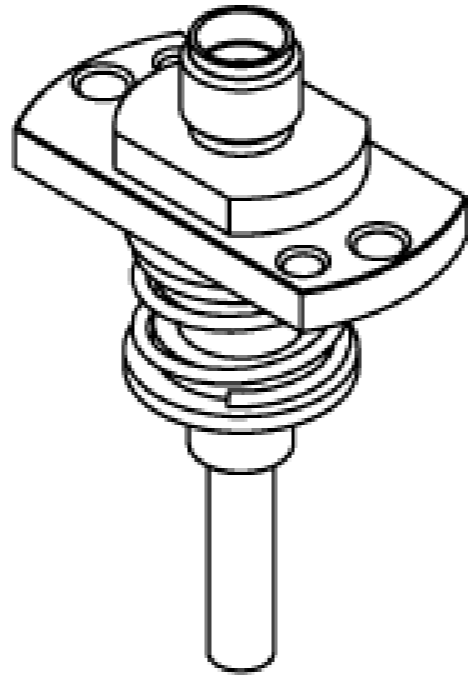
4. PATTERN AND RESIST PROHIBITION AREA

Rev.9

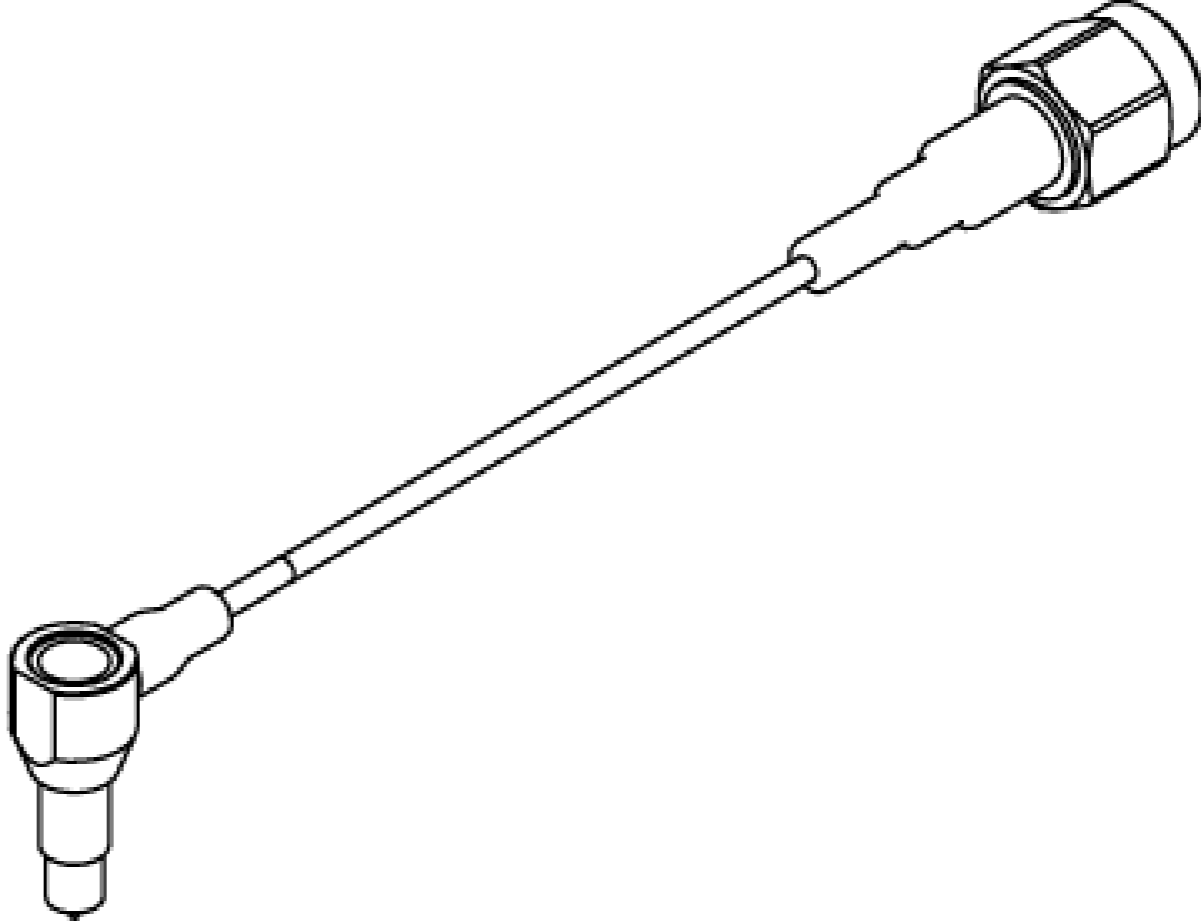
# Accessories for MHF<sup>®</sup>-SW23



MHF-SW23 RECEPTACLE HIGH CYCLE SMA ADAPTER  
PART NO. 90604-0001



MHF-SW23 RECEPTACLE HIGH CYCLE F SMA ADAPTER  
PART NO. 90605-0001



MHF-SW23 SMA ADAPTER CABLE  
PART NO. 90582-0\*00

Board to Board



High-Density



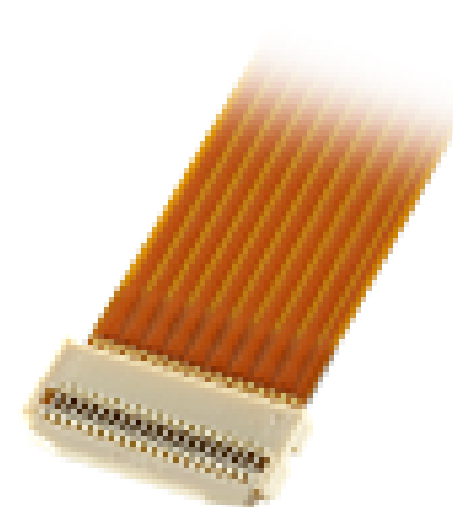
Autolocking FPC/FFC



High-Density



FPC/FFC



Micro-Coaxial / Discrete Cable



High-Speed



RF



High-Frequency



Optical Module



High-Speed



Effector



Power



High-Power



I/O (Input/Output)



Quick charge



Inquiry



Custom Connectors Available



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