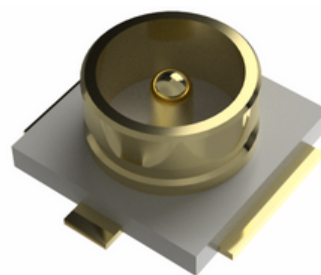
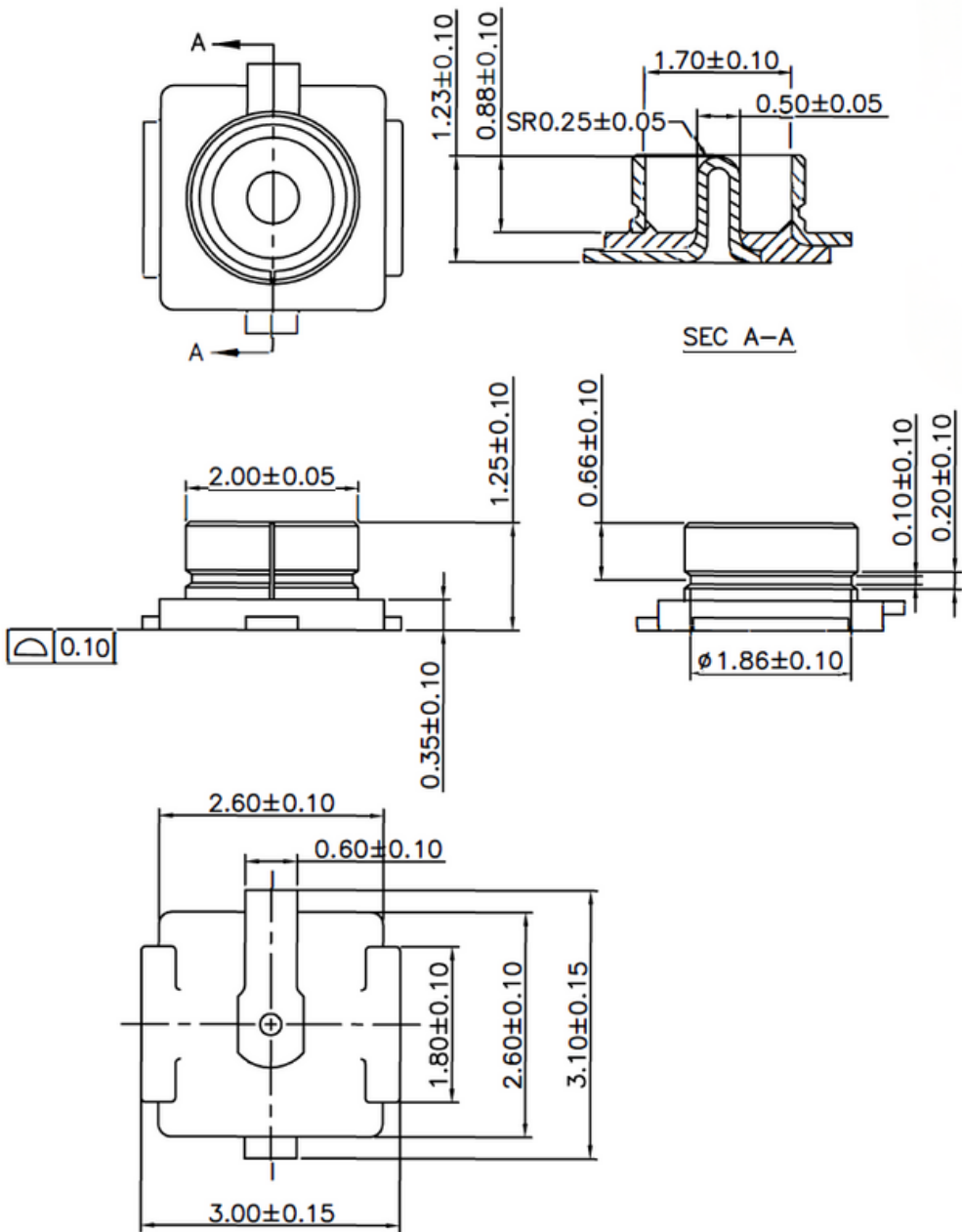


Specification

Part No. SZS-V-MHF1-J

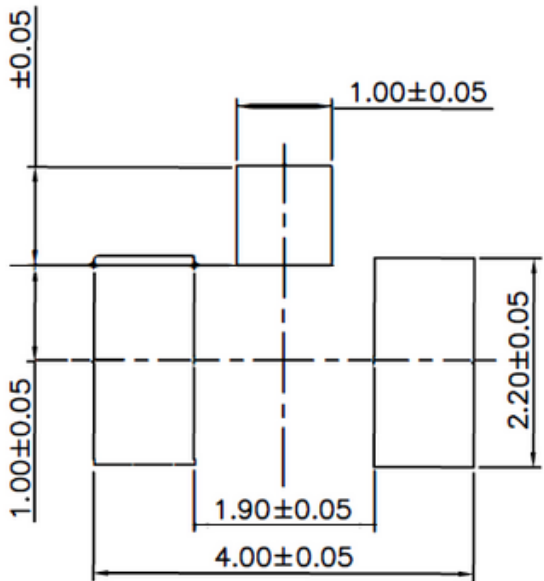
Description: MHF1 Receptacle, PCB-mount, 50 Ω , DC–6 GHz





NOTES:

1. ALL DIMENSIONS IN MILLIMETER
2. MATERIALS
HOUSING: THERMOPLASTIC, UL 94V-0
CONTACT: COPPER ALLOY
PLATING: NICKEL UNDER PLATING, GOLD PLATING ON SOLDER AREA AND CONTACT AREA
3. THE CONCENTRATIONS OF Br&Cl CAN SATISFY THE REQUIREMENT OF HALOGEN-FREE



RECOMMENDED P.C.B. LAYOUT

DIMENSIONS IN MILLIMETRES DO NOT SCALE - IF IN DOUBT ASK			SCALE	01020304050 MILLIMETERS	9F, No. 34, Lane 513, Ruiguang Rd Neihu District, Taipei City, Taiwan 11492. www.synzen.com.tw	SYNZEN
 	THIRD ANGLE PROJECTION	Tolerance unless otherwise stated: Internal Diameter to H11 Angular +/-0.5 Zero Decimel places +/-0.5 One Decimel places +/-0.2 Two Decimel places +/-0.1	DRAWN CDT	MATERIAL	FINISH	
	This drawing embodies confidential information which is the property of SYNZEN to whom the copyright is this drawing belongs. The drawing may not be copied or reproduced in whole or in part nor may it be used for any purposes other than that for which it is was available except with the prior specific written consent of SYNZEN. The provision of this drawing does not grant any rights under any industrial property rights of SYNZEN nor any third party.			DATE DRAWN 28/07/2025	DESCRIPTION MHF1 Receptacle	PART No SZS-V-MHF1-J

1. MATERIAL AND FINISH

1-1. Housing:

Thermoplastic, UL94V-0, color ivory.

1-2. Contact:

Brass, 50 μ " ~ 150 μ " nickel under plating, gold plating on solder area and contact area.

1-3. Metal Shell:

Phosphor bronze,

50 μ " minimum nickel under plating, gold plating on solder area and contact area, or 30 μ " minimum copper under plating, 100 μ " ~ 150 μ " silver plating overall.

2. RATINGS

2-1. Voltage Rating: 60 V AC

2-2. Current Rating: 1 A maximum

3. ELECTRICAL

3-1. Impedance: 50 Ω nominal

3-2. Frequency Range:

0 – 3 GHz (VSWR 1.3 max)

3 – 6 GHz (VSWR 1.5 max)

3-3. Operating Voltage: 500 VRMS

3-4. Contact Resistance:

Center contact: 20 m Ω max. Outer contact: 10 m Ω max

3-5. Dielectric Withstanding Voltage: 200 VAC

3-6. Insulation Resistance: 500 M Ω minimum at 100 V DC

4. MECHANICAL

4-1. Contact Retention Force: 1.5 N minimum

4-2. Mating Force: 40 N maximum

4-3. Unmating Force with FOXCONN Cable End Connector: 3 N – 25 N

4-4. Connector Shear Force to PCBA (Peeling Force): 40 N minimum

4-5. Durability: 30 cycles

5. ENVIRONMENTAL

5-1. Operating Temperature: -40 °C to +105 °C

5-2. Environmental Compliance: All materials conform to Synzen environmental policy, equivalent to RoHS 10 and REACH SVHC requirements.

