

SPECIFICATION

Part No. : **RECE.20449.001E.01**

Product Name : IPEX MHF4 Receptacle

Compatible with Murata HSC

Mating Height: 1.2mm MAX

10,000 pieces per reel

Photo :





1. Introduction

The Taoglas RECE.20449.001E.01 is a wire-to-board MHF4 SMT type Receptacle solution. IPEX MHF4 type is the smallest mini RF connector in the world. Lightweight and ultra-low profile (1.2mm MAX.) allows easy installation in limit spaces. With an operational frequency range of DC to 6 GHz, Taoglas RECE.20449.001E.01 offers superior performance and supports a wide range of miniature design purpose. Packaged on tape and reel, this receptacle is designed to be placed with automatic "pick and place" equipment.

The RECE.20449.001E.01 acts as a 50 Ohm transmission line to connect the micro-miniature RF connector to the printed circuit board. It is fully compatible with Hirose HSC connector.

Applicable Technology

IEEE 802.11 a/b/g/n, WiMAX, ZigBee, Bluetooth Wireless, etc.



2. Specifications

Electrical		
Operation Frequency	DC to 6 GHz	
VSWR	1.3 Max at DC~3 GHz	
	1.45 Max at 3~6 GHz	
Nominal Impedance	50 Ohm	
Rated Voltage	AC 60V	
Contact Resistance	20m Ohm MAX. (signal) and 20m Ohm MAX. (Ground)	
Withstand Voltage	AC 200V/minute	
Insulation Resistance	500M Ohm MIN. /DC 100V	
Temperature	-40 to +90°C	

Material Material		
Ground Contact	Copper Alloy (Au plating)	
Centre Contact	Copper Alloy (Au plating)	
Insulator	LCP UL94V-0	

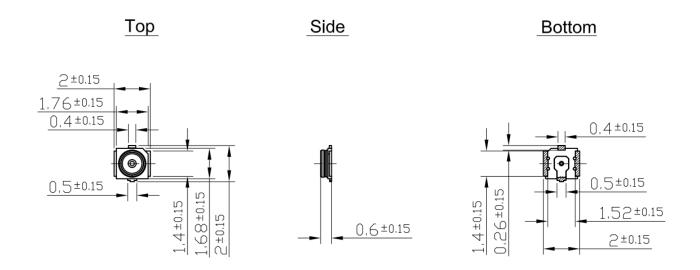
Environmental		
Temperature	-40 to +90°C	
RoHs Complaint	Yes	
Halogen-Free	Yes	
Vibration (Mating connector)	Frequency: 10Hz-100Hz Duration: 20mins Peak value of acceleration: 59m/s² (6G) Direction, cycle: 3 axis, 3 cycles	
Shock (Mating connector)	Peak Value of acceleration: 735m/s ² (75G) Duration: 11ms Waveform: Half sinusoidal Direction: 6 axis Cycles: 3 cycles for each direction	
Humidity	Temperature: 40+/- 2°C Humidity: 90~95%RH Duration 96 hours	
Thermal Shock	-55°C for 30mins to 85°C for 30mins Transition Time: 5 minutes Cycles: 5	
High temperature life	90+/- 2°C for 96 hours	
H₂S gas	Temperature: $40+/-2^{\circ}$ C Relative Humidity: $80+/-5^{\circ}$ RH Gas H_2 S $3+/-1$ ppm	



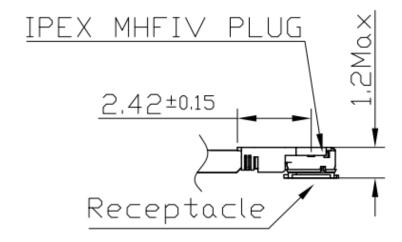
	Duration 96 hours
Salt Water Spray	Temperature: 35+/-2°C Relative Humidity: 95~98%RH Salt Water Density: 5+/-1% (by weight) Duration: 48 Hours



3. Technical Drawing



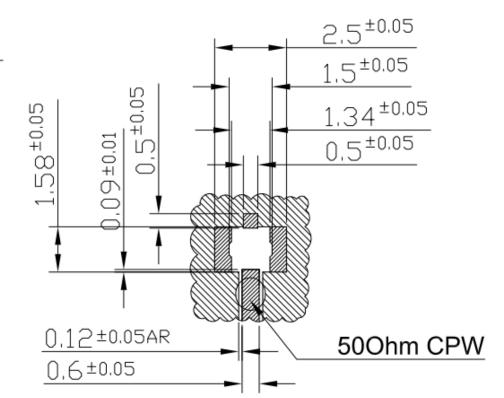
Mated View





4. Footprint

PCB Footprint



Note:

1.Soldered Area

2.Solder Mask

3.Clearance Area

4.PCB Thickness 0.4mm



5. Reflow Profile

The following is the recommended reflow profile for the IPEX MHF4 receptacle. The recommended number of reflow cycles are 2.

