



TXR™ 4 Series SMD HSC Compatible Receptacle

Part No:

RECE.20449.001E.01

Description:

TXR™ 4 Series HSC Compatible Receptacle

Compatible with I-PEX MHF [®]4. I-PEX MHF [®]4L, and Murata HSC

Features:

Mating Height: 1.2mm Max

10000pcs per reel

Dimensions: 2 x 2 x 0.6 mm

Diameter: 1.4mm

RoHS & Reach Compliant



1.	Introduction	3
2.	Specifications	4
3.	Connector Data	6
4.	Mechanical Drawing	7
5.	Footprint	8
6.	Solder Reflow Profile	9
7.	Packaging	10
	Changelog	12

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1. Introduction



Part of the Taoglas TXR™ Series of receptacles, the TXR™ 4 RECE.20449.001E.01 is a 3-pad type wire-to-board SMT Receptacle solution that is ultra-small, lightweight and low profile, 1.6mm max. with an operational frequency range of DC to 6 GHz the TXR™ 4 RECE.20449.001E.01 is gold plated to provide superior performance and allow easy mounting of the male RF connector.

Packaged on tape and reel, this receptacle is designed to be placed with automatic "pick and place" equipment for ease of installation.

The TXR™ 4 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 I-PEX MHF ®4, I-PEX MHF ®4L, Murata HSC and all other available HSC compatible connectors.

Applicable Technologies:

TXR™ 4 RECE.20449.001E.01 receptacles are commonly integrated into GSM module, GPS module, Wireless LAN modules. Many 5G modules are currently using these compatible receptacles for the next generation of cellular applications.

For further information, please contact your regional Taoglas customer support team.



2. Specifications

Electrical				
Operation Frequency	DC to 6 GHz			
VCMD	1.3 Max at DC∼3 GHz			
VSWR	1.4 Max at 3~6 GHz			
Nominal Impedance	50 Ohm			
Rated Voltage	60V AC			
Rated Current	1A Max.			
Contact Resistance	Subject mated contacts assembled in housing to 20mV Max. open circuit at 10mA Max			
Withstand Voltage	AC 200V/minute			
Insulation Resistance	Impressed voltage 100V DC for 1min Initial : $500M\Omega$ Min. Final : $100M\Omega$ Min.			
Dielectric Withstanding Voltage	200V AC for 1 minute			
Current leakage	0.5mA Max			
Temperature	-40 to +90°C			

Material				
Outer Contact	Copper Alloy (Au plating)			
Centre Contact	Copper Alloy (Au plating)			
Insulator	LCP UL94-V0			

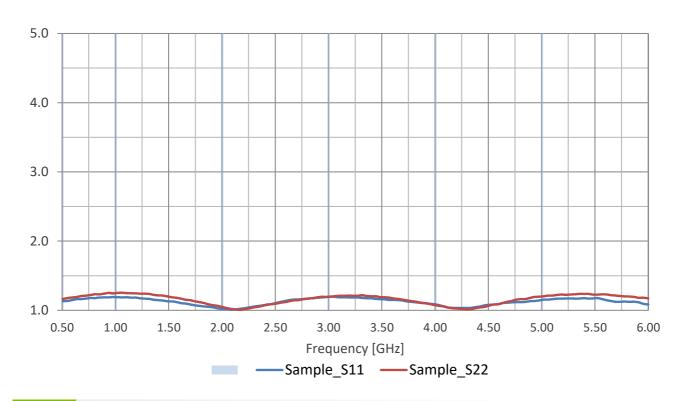


	Environmental				
Durability per EIA-364-09C (2-3 cycles per min @ 30 cycles)					
Vibration	10Hz -> 100Hz -> 10Hz for 20 mins.				
Peak value of acceleration	1.5mm or 59m/s2 (6G)				
Direction	3 axis 3 Cycles				
Mechanical Shock					
Accelerate Velocity	735m/s2 (75G)				
Waveform	Half-sine shock plus.				
Duration	11m sec.				
Direct Current	1mA				
Direction	In ±X, ±Y and ±Z axes.				
Cycle	3 cycles for each direction, totally 18 cycles				
Thermal Shock (40°C for 30mins to 5~35°C for 5 minutes to 90°C for 30mins to 5~35°C for 5 minutes)					
Transition Time	5 minutes				
Cycles	5				
Humidity	90~95% RH				
Temperature	40+/- 2°C				
Duration	96 hours				
	Salt Water Spray				
Temperature	35+/- 2°C				
Salt Water Density	5+/-1% (by weight)				
Duration	48 Hours				
High temperature life	90+/- 2°C for 96 hours				
Cold temperature life	-40+/- 2°C for 96 hours				
	H2S gas				
Temperature	40+/-2°C				
Relative Humidity	80 +/-5% RH				
Gas H2S	3+/-1 ppm				
Duration	96 Hours				
Moister Sensitivity Level	3				

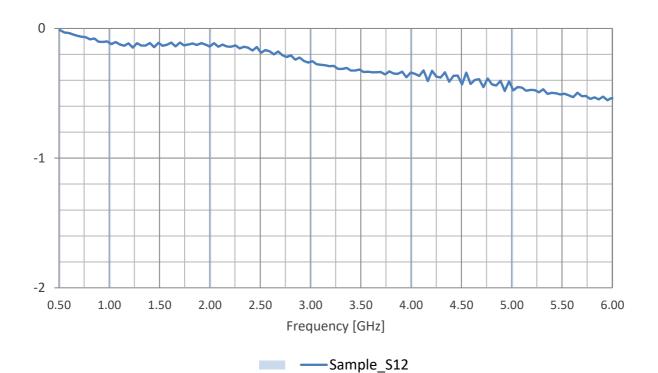


3. Connector Data

3.1 VSWR

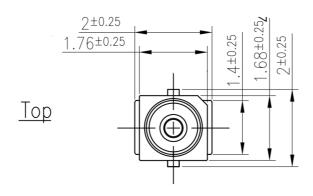


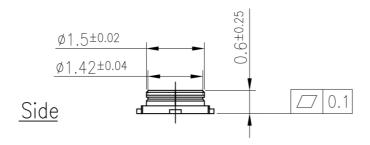
3.2 Insertion Loss

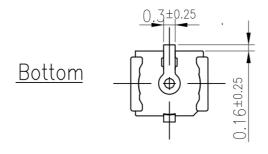


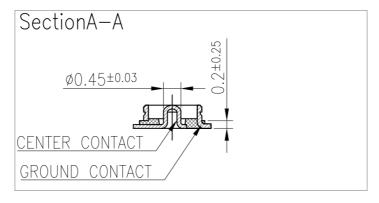


4. Mechanical Drawing (Units: mm)



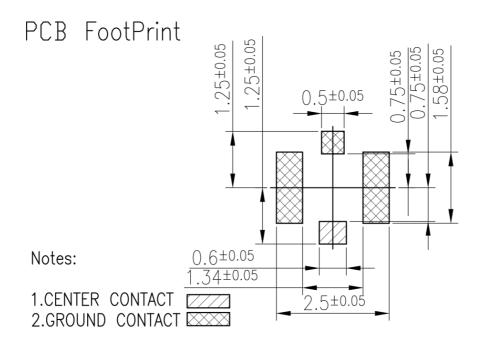






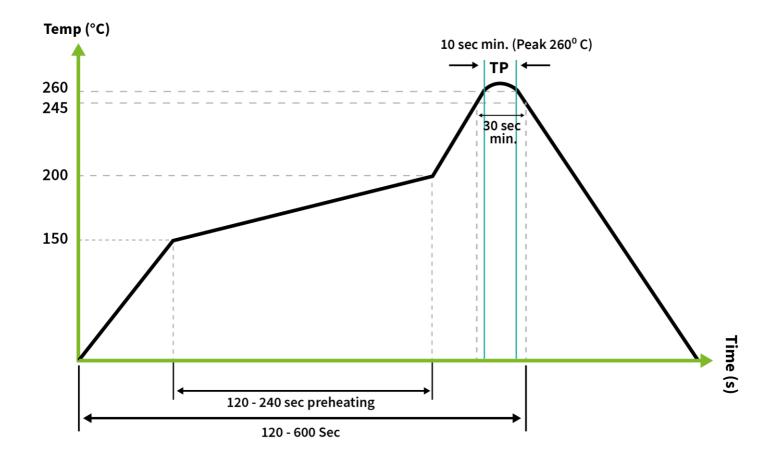


5. Footprint





6. Solder Reflow

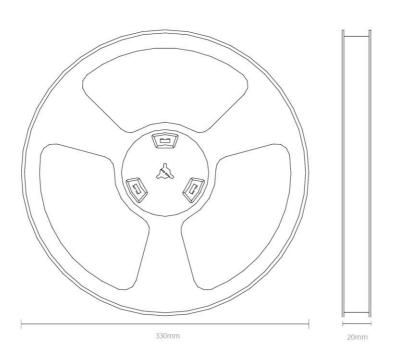


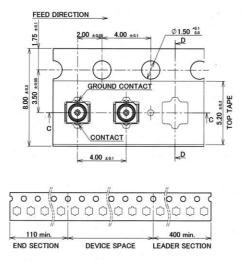


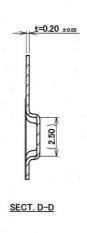
10

7. Packaging

15000 pcs RECE.20449.001E.01 reel Dimensions - 330*330*20mm





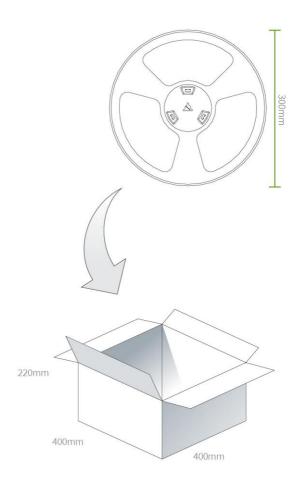




11

15000 pcs RECE.20449.001E.01 reel Dimensions - 330*330*20mm

10 reels, 150000 pcs in one carton Carton Dimensions - 400*400*220mm





12

Changelog for the datasheet

SPE-16-8-034 - RECE.20369.001E.01

Revision: D (Current Version)		
Date:	2022-03-08	
Changes:	Updated Packaging	
Changes Made by:	Gary West	

Previous Revisions

Revision: C		
Date:	2021-07-15	
Changes:	Updated Solder Reflow Diagram & Adding MSL.	
Changes Made by:	Gary West	

Revision: B		
Date:	2021-02-03	
Changes:	Following EC-20-8-036	
Changes Made by:	Jack Conroy	

Revision: A (Original First Release)		
Date:	2016-04-21	
Notes:		
Author:	Jack Conroy	





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