



TAOGLAS®



Datasheet

TXR™ 3 Series SMD W.FL Compatible Receptacle

Part No:
RECE.20369.001E.01

Description:

TXR™ 3 W.FL Compatible Receptacle
Compatible with I-PEX MHFIII, Hirose W.FL, Hirose W.FL2

Features:

Mating Height: 1.6mm Max
5000pcs per reel
Dimensions: 2 x 2 x 0.85 mm
Diameter: 1.4mm
RoHS & Reach Compliant

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1. Introduction



Part of the Taoglas TXR™ Series of receptacles, the TXR™ 3 RECE.20369.001E.01 is a 3-pad type wire-to-board SMD Receptacle solution that is ultra-small, lightweight and low profile (1.6mm MAX.) with an operational frequency range of DC to 6 GHz. Taoglas TXR™ 3 RECE.20369.001E.01 is gold plated to have 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™ 3 RECE.20369.001E.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 MHFIII, Hirose W.FL and all other available W.FL compatible connectors .

Applicable Technologies:

TXR™ 3 RECE.20369.001E.01 receptacles are commonly integrated into GSM module, GPS module, Wireless LAN modules.

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

2. Specifications

| Electrical | |
|---------------------------------|--|
| Operation Frequency | DC to 6 GHz |
| VSWR | 1.3 Max at DC~3 GHz |
| | 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 : 500MΩ Min. Final : 100MΩ Min. |
| Dielectric Withstanding Voltage | 200V AC for 1 minute |
| Current leakage | 0.5mA Max |
| Temperature | -40 to +90°C |

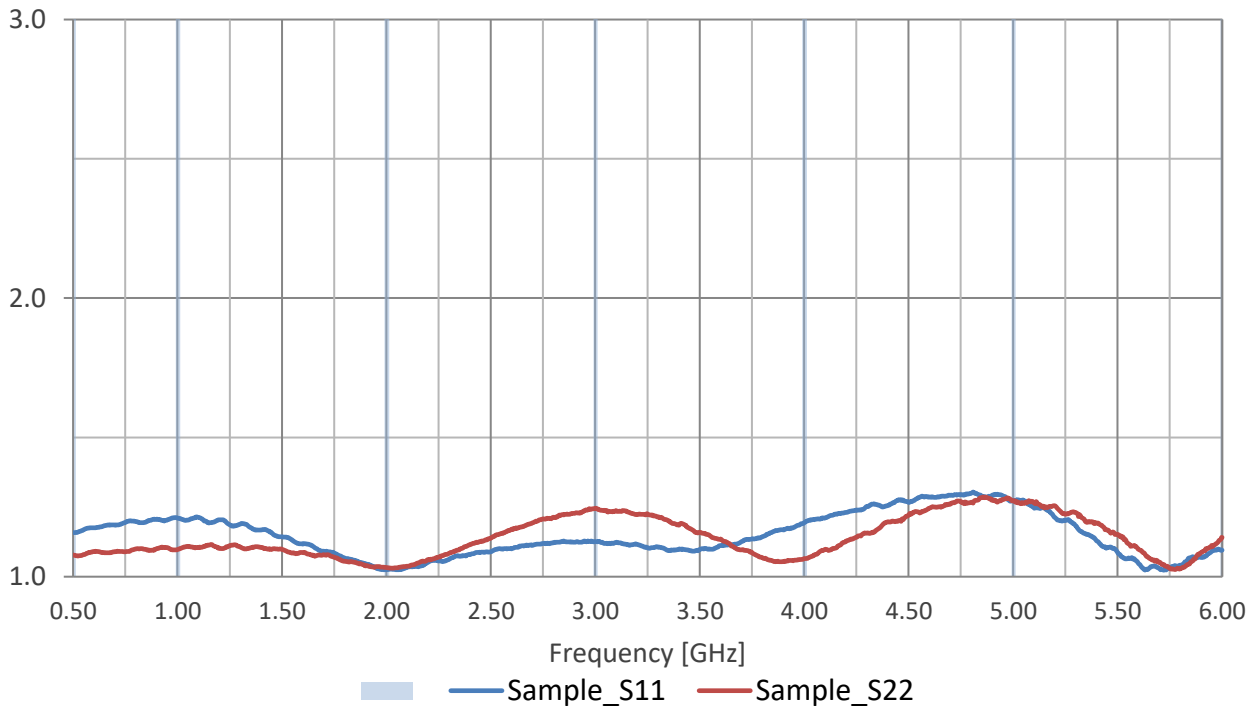
| Material | |
|----------------|---------------------------|
| Outer Contact | Copper Alloy (Au plating) |
| Centre Contact | Copper Alloy (Au plating) |
| Insulator | LCP UL94-V0 |

| 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/s ² (6G) |
| Direction | 3 axis 5 Cycles |
| Mechanical Shock | |
| Accelerate Velocity | 735m/s ² (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 |

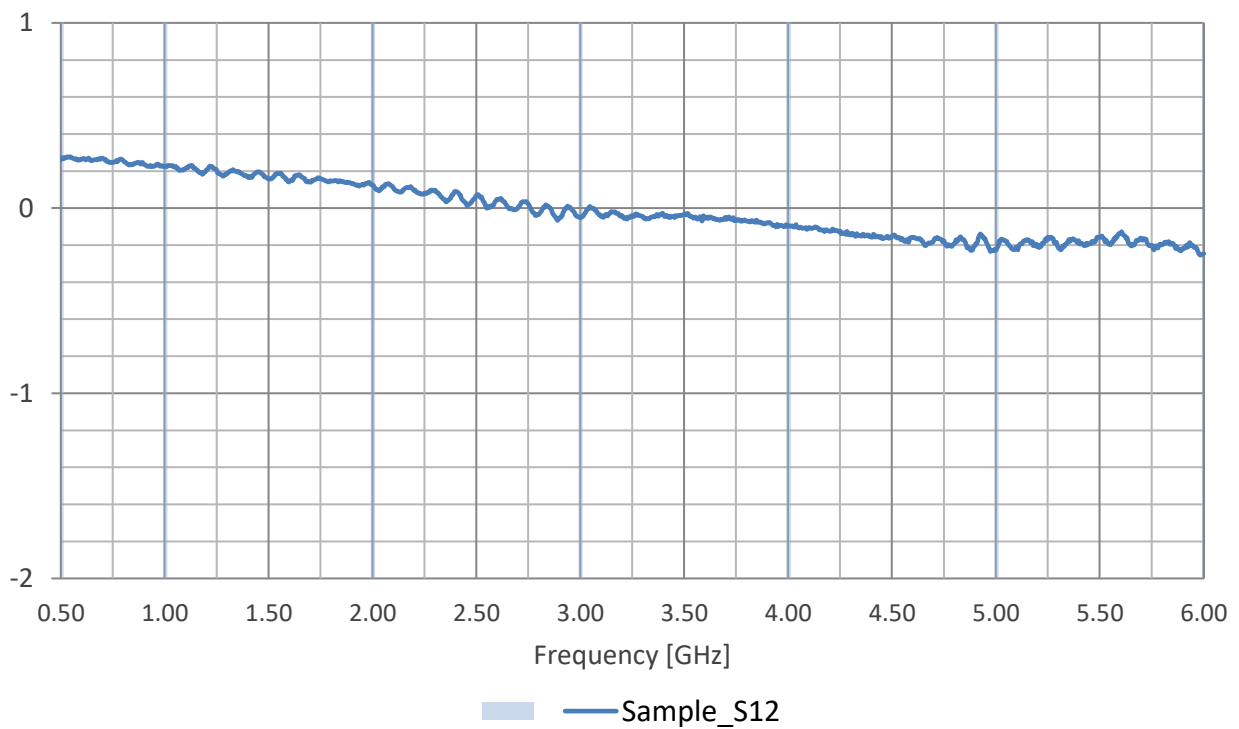
| | |
|-----------------------|--|
| Thermal Shock | 40°C for 30mins to 5~35°C for 5 minutes to 90°C for 30mins to 5~35°C for 5 minutes |
| Transition Time | 5 minutes |
| Cycles | 5 |
| Humidity | 90~95% RH |
| Temperature | 40+/- 2°C |
| Duration | 96 hours |
| Salt Water Spray | |
| Temperature | 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 |

3. Connector Data

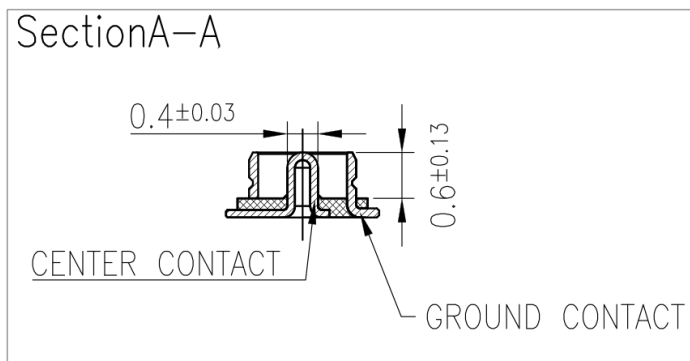
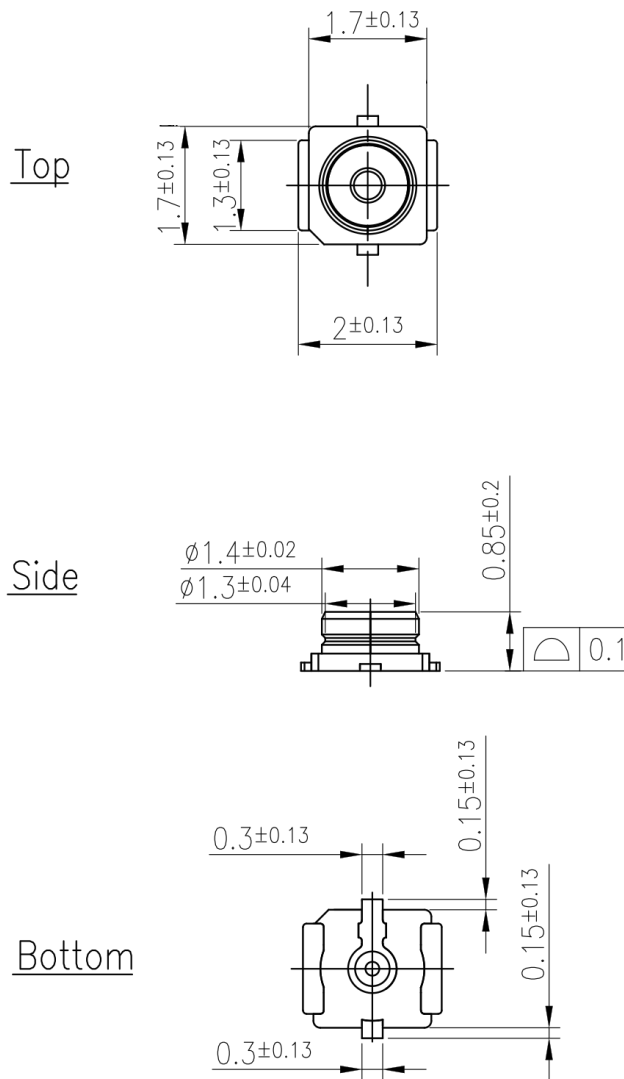
3.1 VSWR



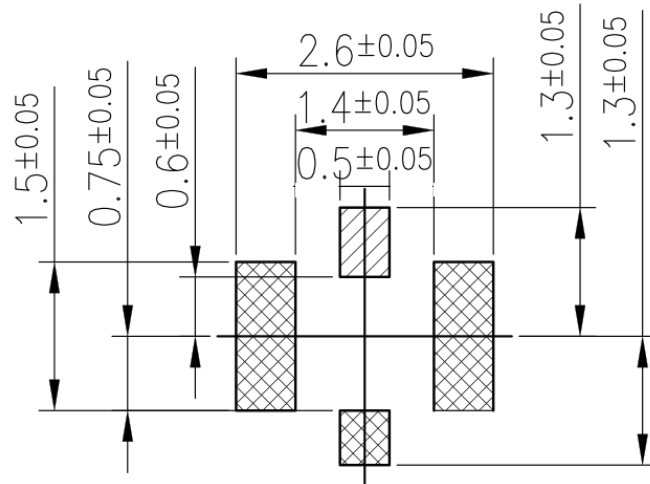
3.2 Insertion Loss



4. Mechanical Drawing (Units: mm)



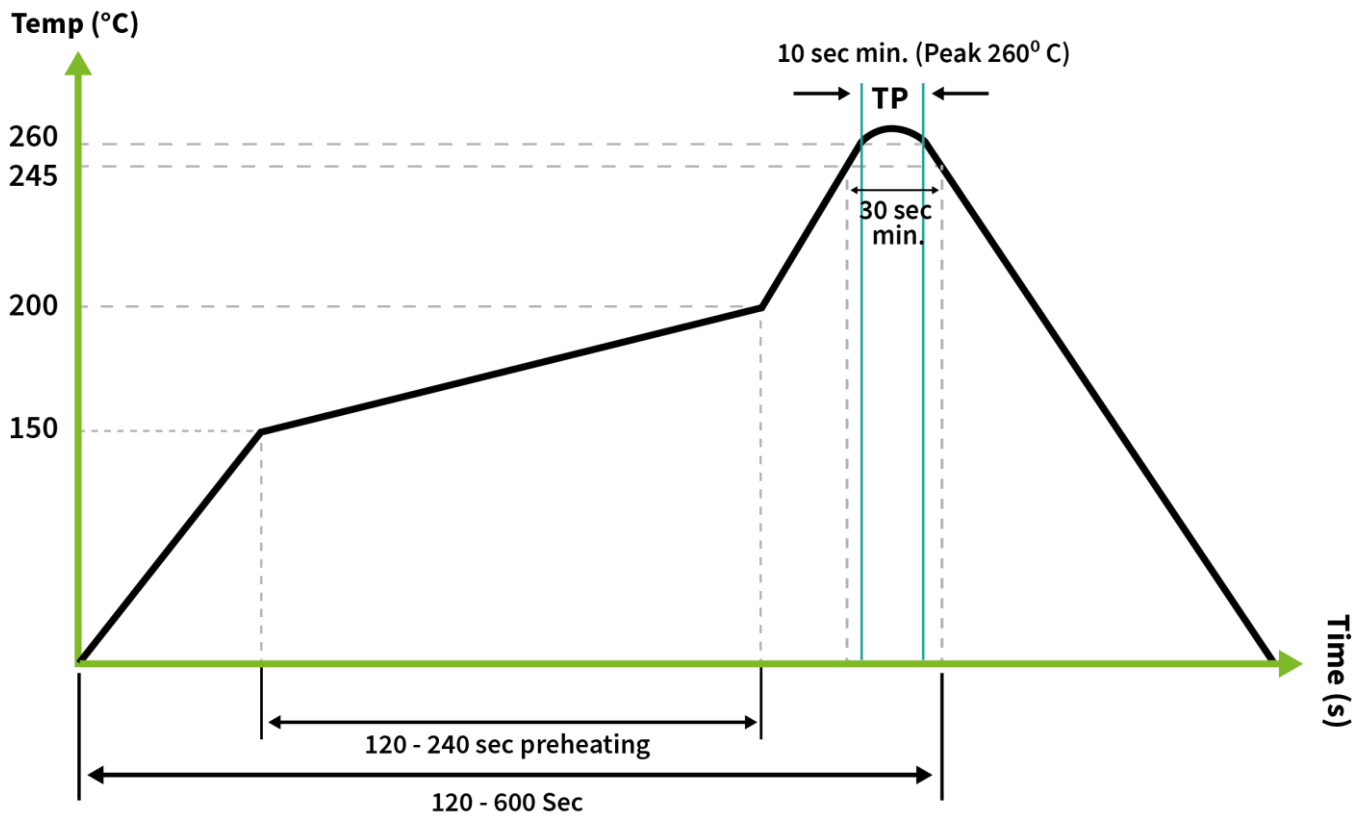
5. Footprint



Notes:

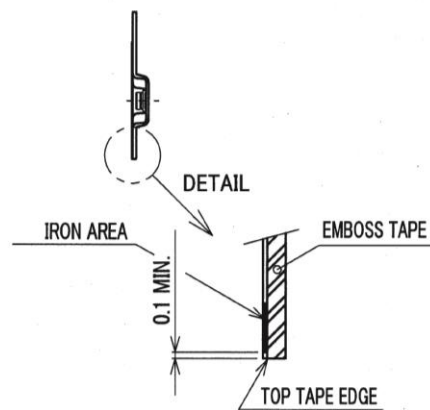
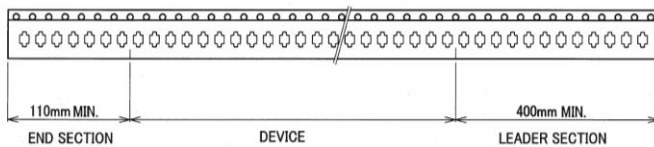
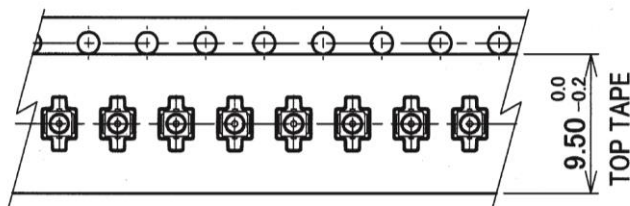
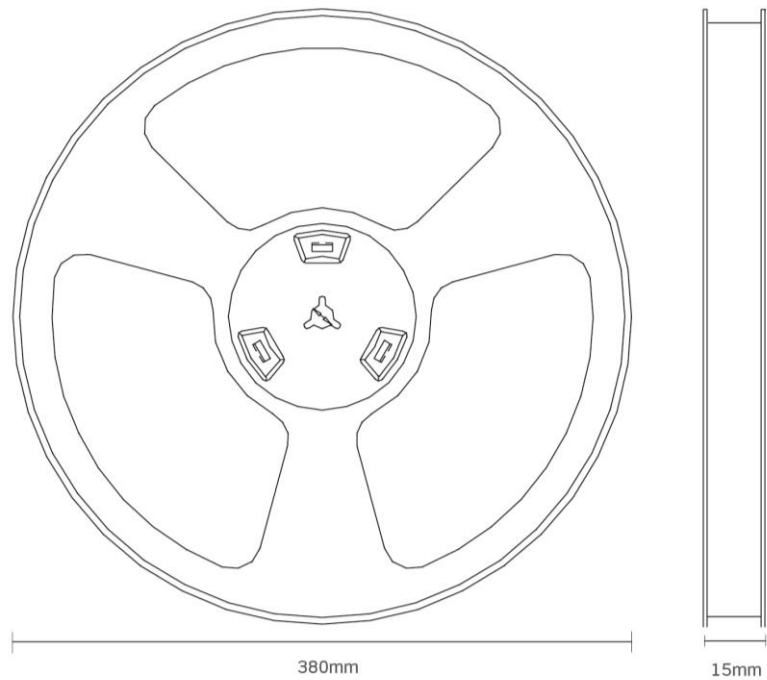
- 1. CENTER CONTACT 
- 2. GROUND CONTACT 

6. Solder Reflow

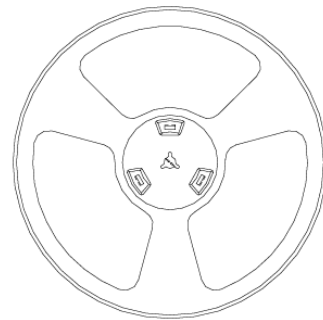


7. Packaging

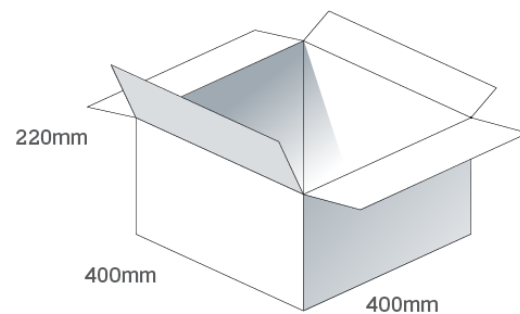
5000 pcs RECE.20369.001E.01 reel
 Dimensions - 380*380*15mm
 Weight -262g



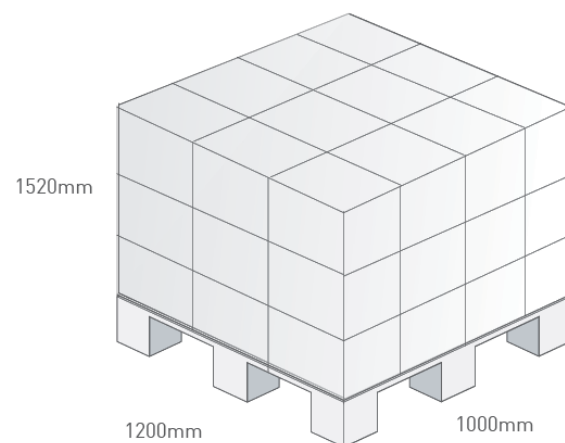
5000 pcs RECE.20369.001E.01 reel
Dimensions - 380*380*15mm
Weight - 262g



8 reels, 40000 pcs in one carton
Carton Dimensions - 400*400*220mm
Weight - 3.5Kg



Pallet Dimensions 1200*1000*1520mm
36 Cartons per Pallet
12 Cartons per layer
3 Layers



Changelog for the datasheet

SPE-16-8-033 - RECE.20369.001E.01

Revision: B (Current Version)

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

Previous Revisions

Revision: A (Original First Release)

| | |
|---------|-------------|
| Date: | 2016-04-21 |
| Notes: | |
| Author: | Jack Conroy |



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