



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: Patch Antenna with PCB 915MHz (BW=21MHz)

TST Parts No.: TQ0001A

Vendor Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Hong Pu Lin *Hong Pu Lin*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 9 / 20 / 2018

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes



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Patch Antenna with PCB 915MHz

MODEL NO.: TQ0001A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 105°C
2. Storage temperature range: -40°C to 105°C

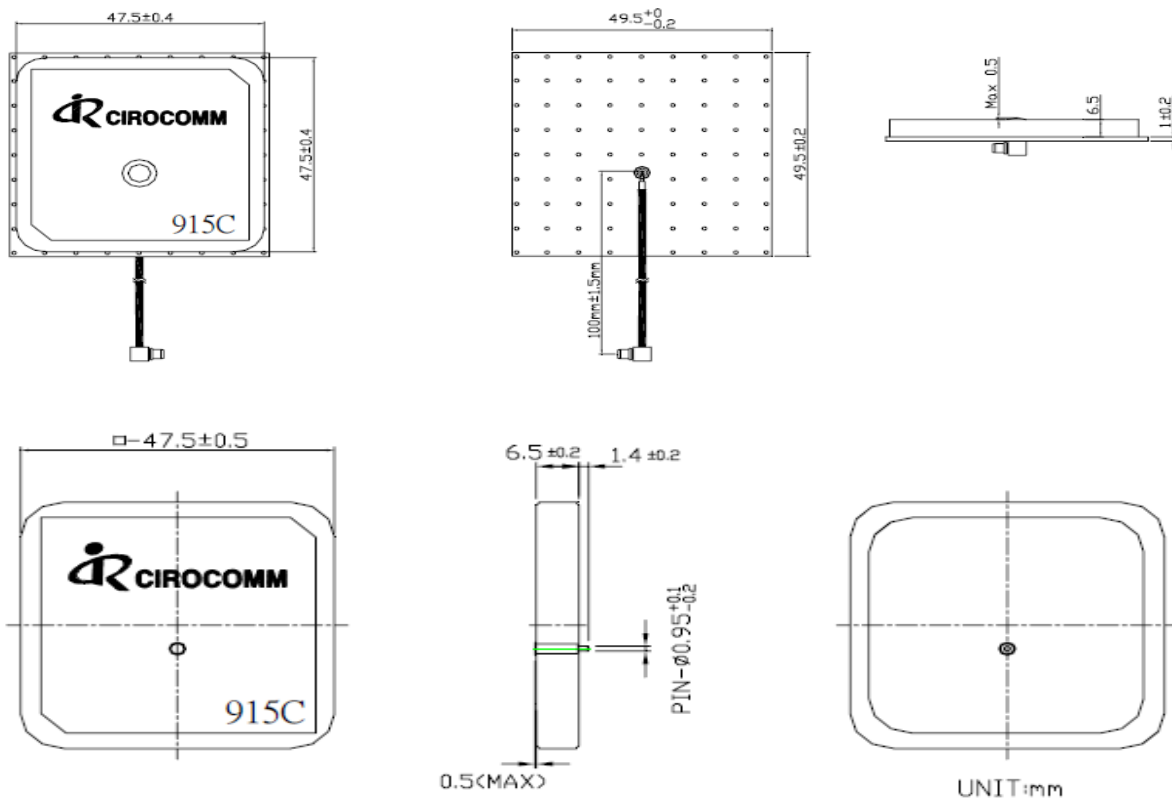
RoHS Compliant
Lead free
Lead-free soldering

B. CHARACTERISTICS:

Electrostatic Sensitive Device

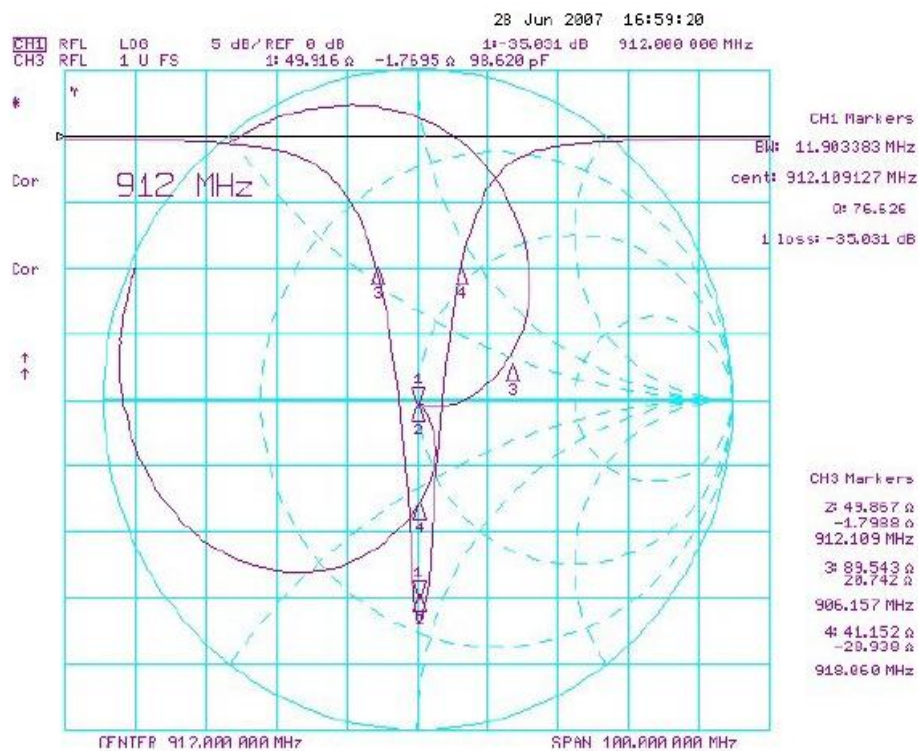
Parameter	Unit	Typ.
Center Frequency (Without PCB)	MHz	912MHz $\pm$ 3MHz
Center Frequency (With PCB)	MHz	914MHz $\pm$ 3MHz
Bandwidth	MHz	10MHz min
VSWR	dB	2.0 Max
Polarization		RHCP
impedance	Ohm	50
Frequency Temperature Coefficient(TF)	ppm/°C	20
Dimension	mm	Patch Antenna : 47.5X47.5X6.5mm PCB: 49.5X49.5mm

C. OUTLINE DRAWING:

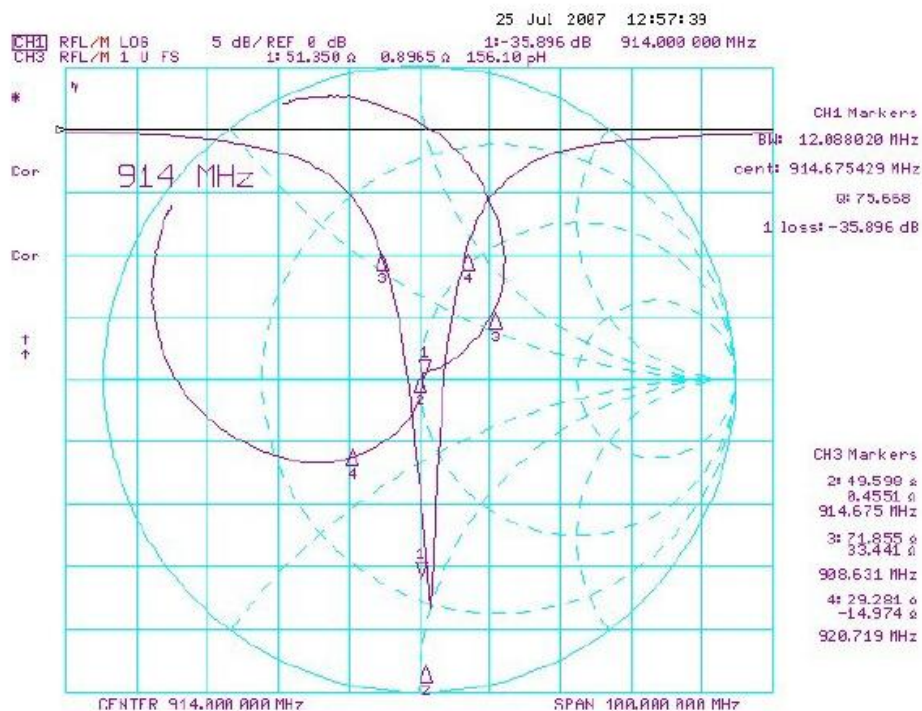


D. FREQUENCY CHARACTERISTICS :

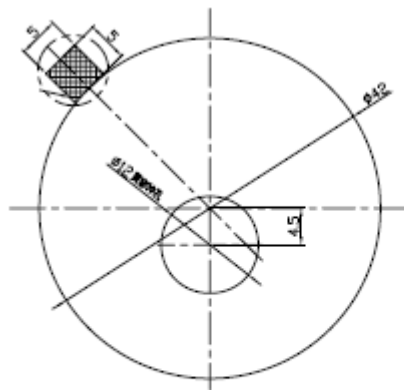
S11 Return Loss Measurement in free space



S11 Return Loss With PCB Board On GND Plane



E. TAPE DIMENSION:

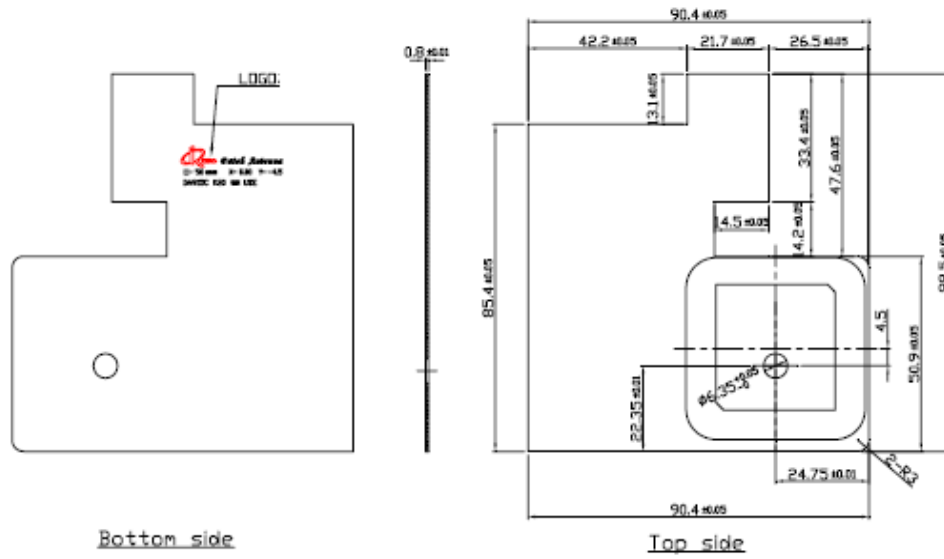


- 1. NITTO : NO.5015
- 2. Double-coated adhesive tape for industrial use
- 3. Thickness : 0.12mm
- 4. ± 0.2

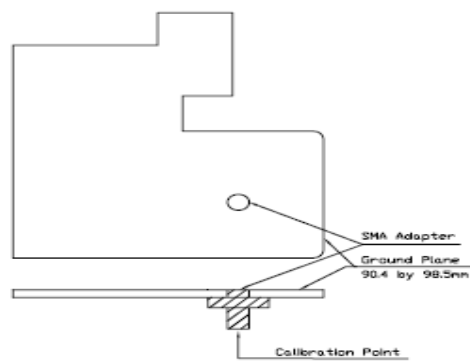
F. MARK:



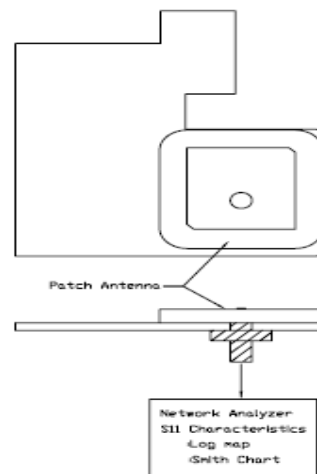
G. TEST FIXTURE:



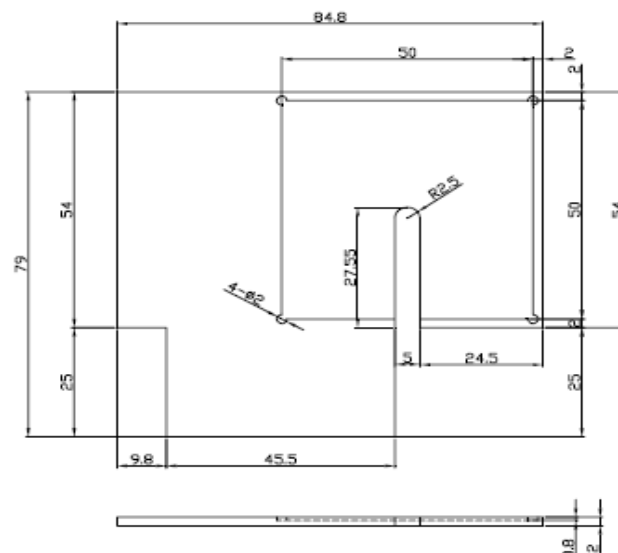
Test Fixture



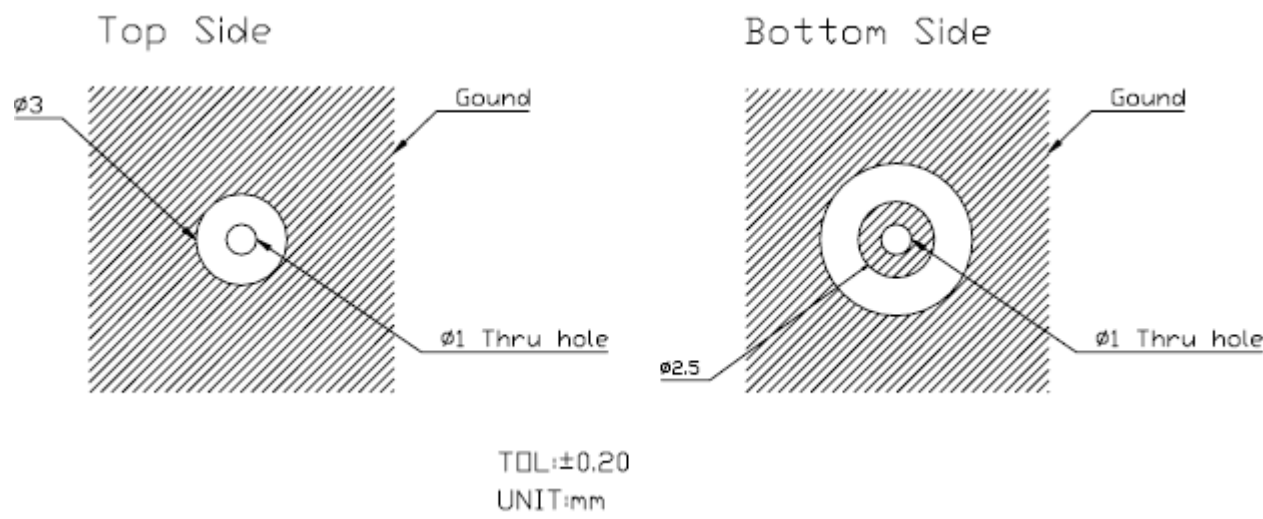
Antenna Setup & Measurements



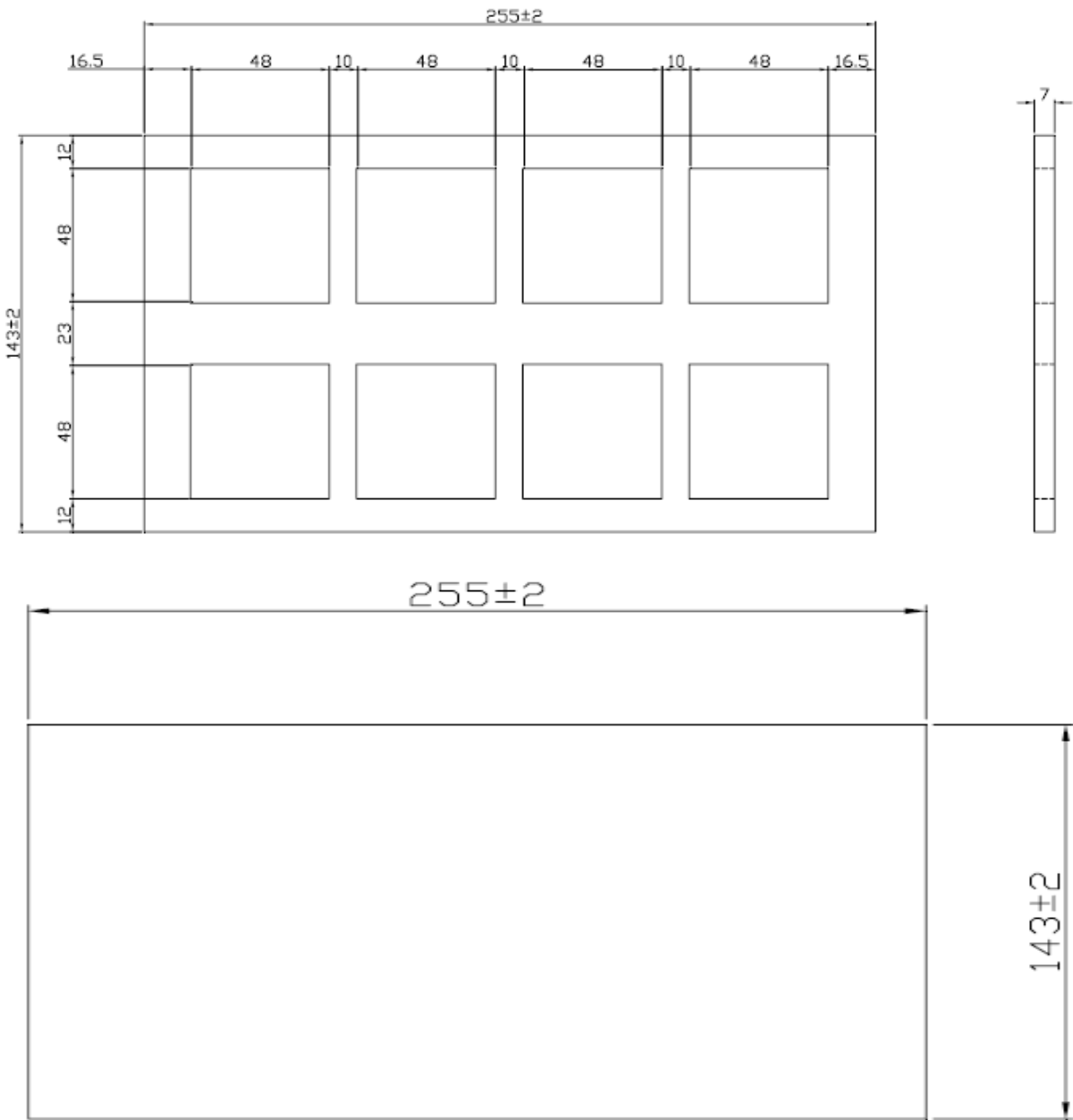
(With PCB)



H. LAYOUT DIMENSION:



I. DA PACKAGE DISASSEMBLY:



J. PACKING

Outer Carton

