



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: Print Chip Antenna 868MHz & 915MHz

TST Parts No.: TQ0004A

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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Print Chip Antenna 868MHz & 915MHz

MODEL NO.: TQ0004A

REV. NO.1

A. MAXIMUM RATING:

1. Operating temperature range: -40°C to 85°C
2. Storage temperature range: -40°C to 85°C

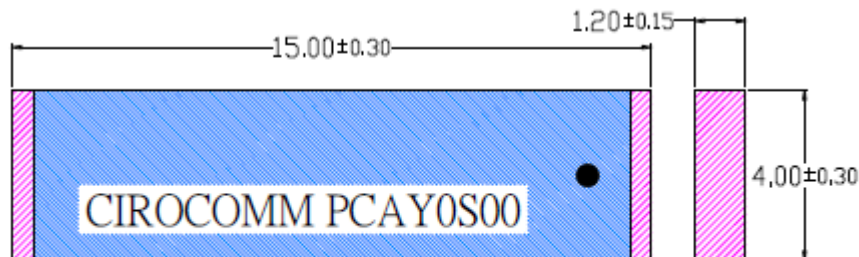
RoHS Compliant
Lead free
Lead-free soldering

B. CHARACTERISTICS:

Electrostatic Sensitive Device

Parameter	Unit	Typ.
Working Frequency	MHz	868/915MHz
Azimuth		Omni-directional
Polarization		Liner
impedance	Ohm	50
Dimension	mm	15X4.0X1.2

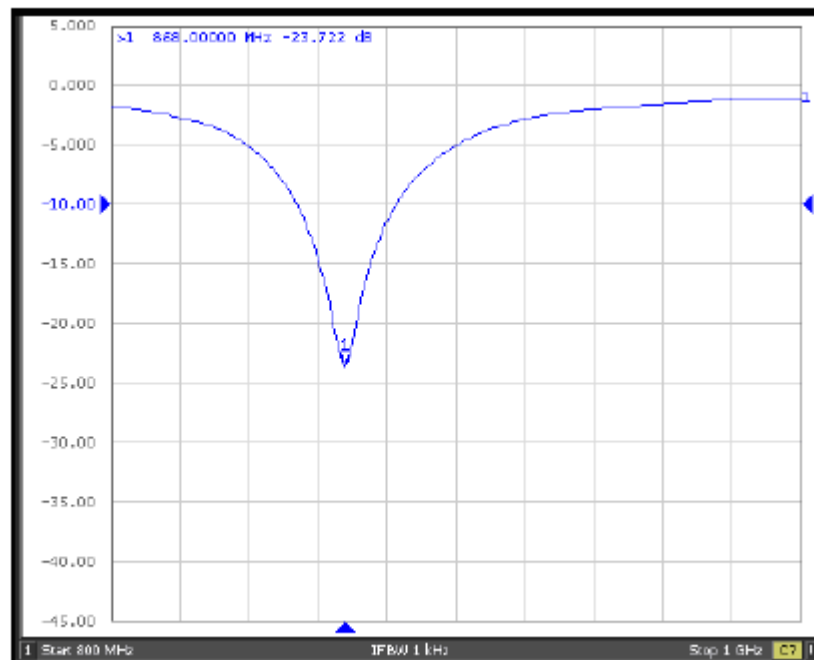
C. OUTLINE DRAWING:



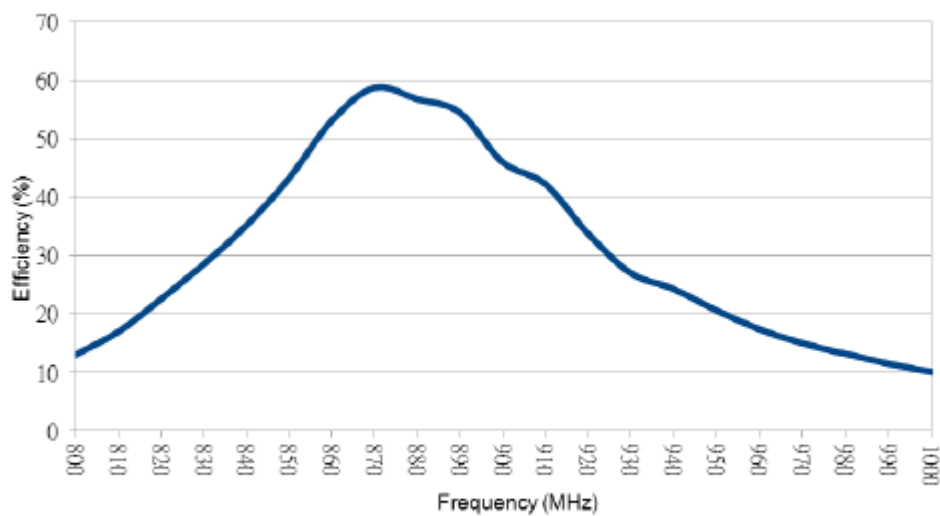
Unit :mm

D. S11 & EFFICIENCY MEASUREMENT:

ANT 1.

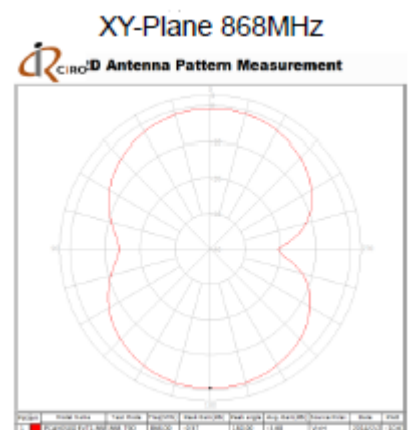
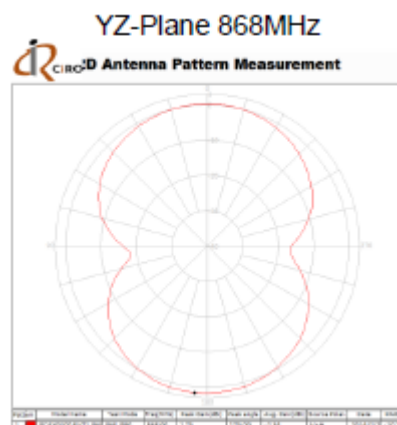
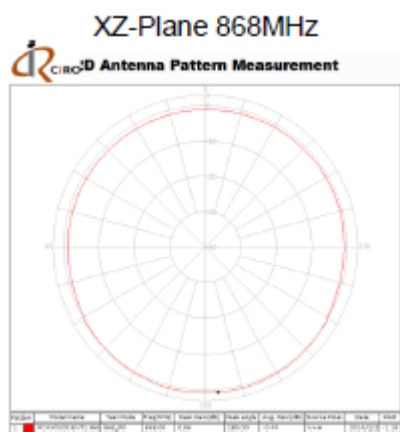


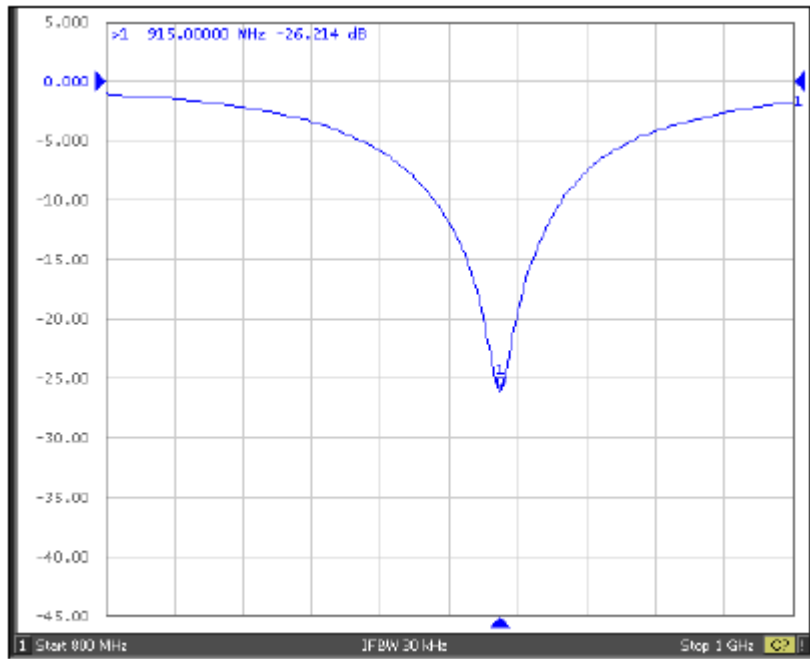
Return Loss : -23.72dB @868MHz



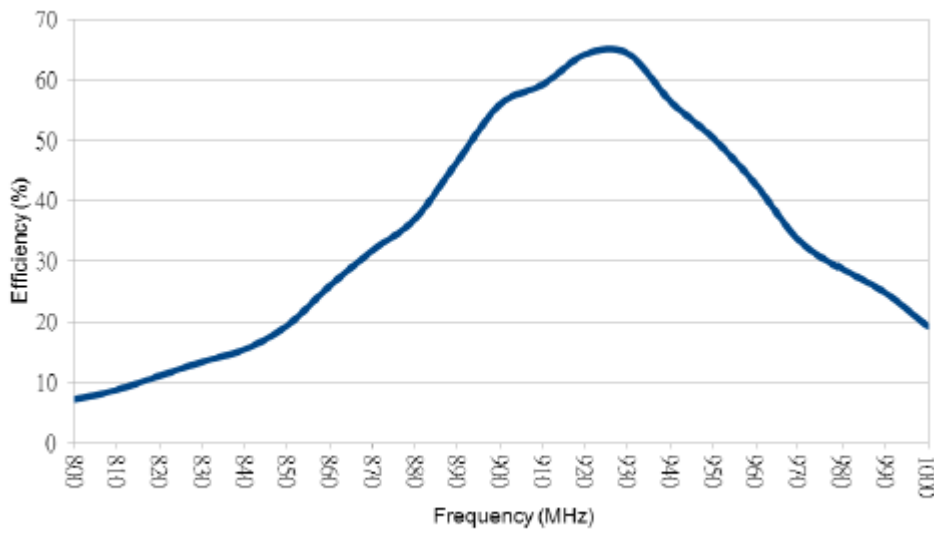
Efficiency(%) : 58.81@868MHz

868MHz	Peak Gain (dBi)
XZ-Plane	0.86
YZ-Plane	1.75
XY-Plane	-0.57



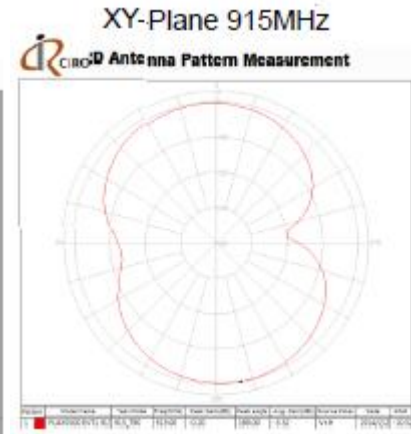
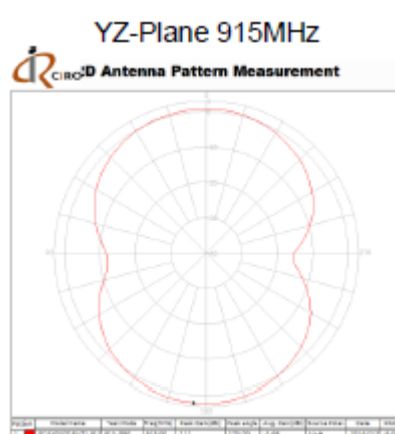
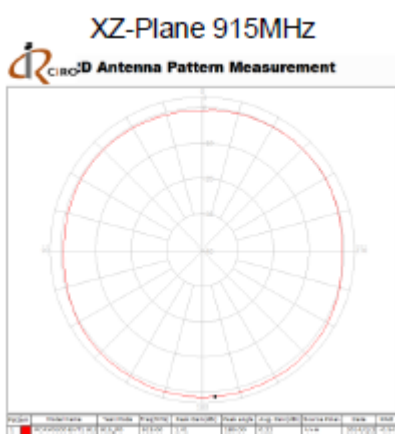


Return Loss : -26.21dB @915MHz

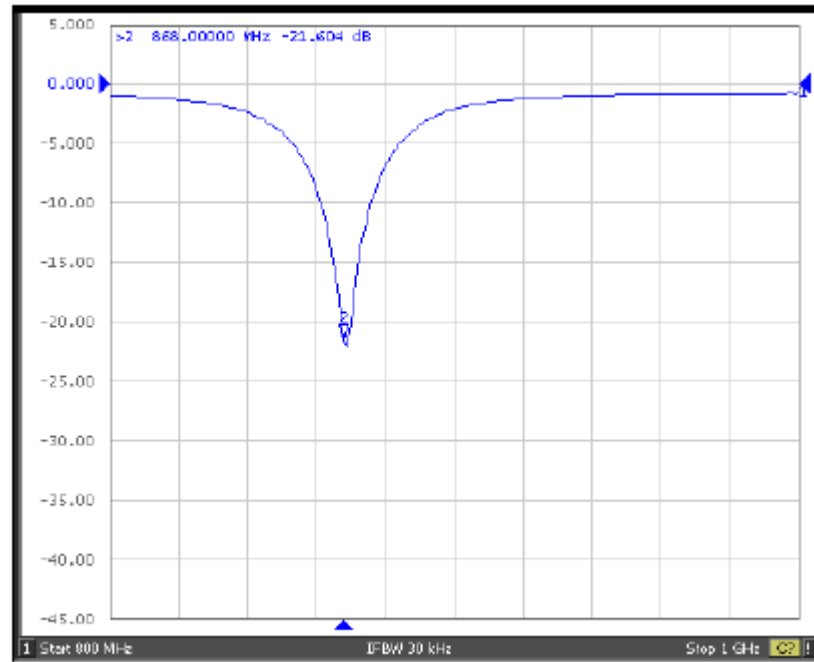


Efficiency(%) : 59.13 @915MHz

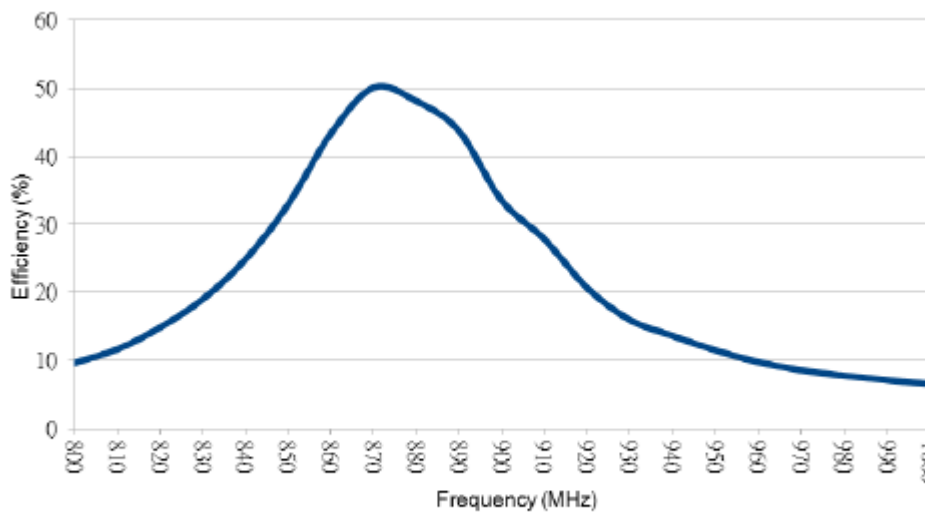
915MHz	Peak Gain (dBi)
XZ-Plane	1.41
YZ-Plane	2.11
XY-Plane	-0.20



ANT 2.



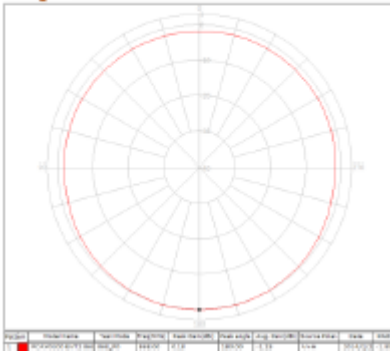
Return Loss : -21.60dB @868MHz



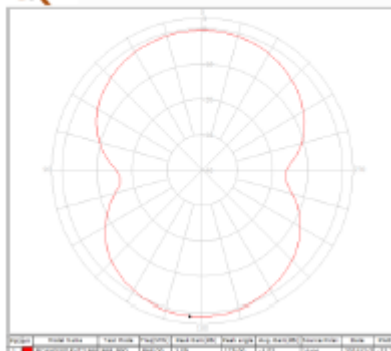
Efficiency(%) : 50.12@868MHz

868MHz	Peak Gain (dBi)
XZ-Plane	0.18
YZ-Plane	1.05
XY-Plane	-1.17

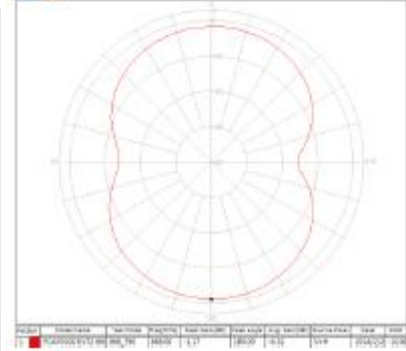
XZ-Plane 868MHz
CIRCAD Antenna Pattern Measurement

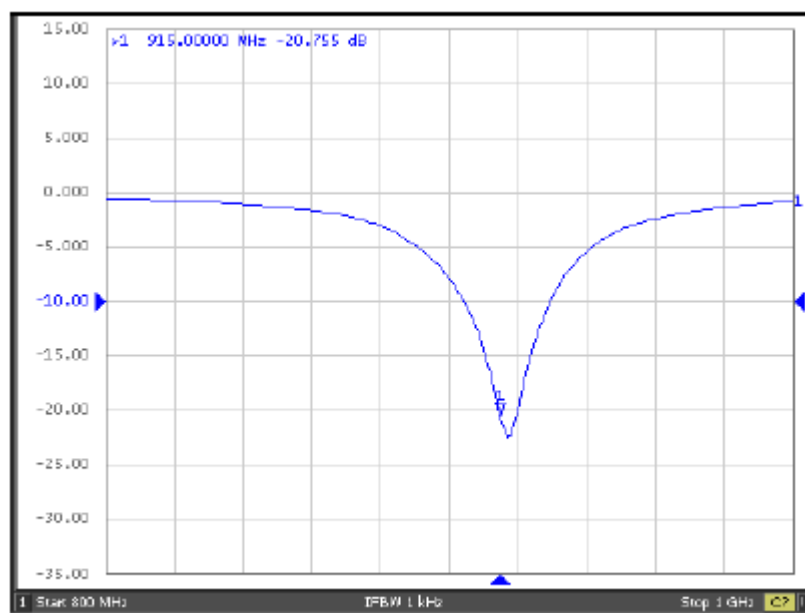


YZ-Plane 868MHz
CIRCAD Antenna Pattern Measurement

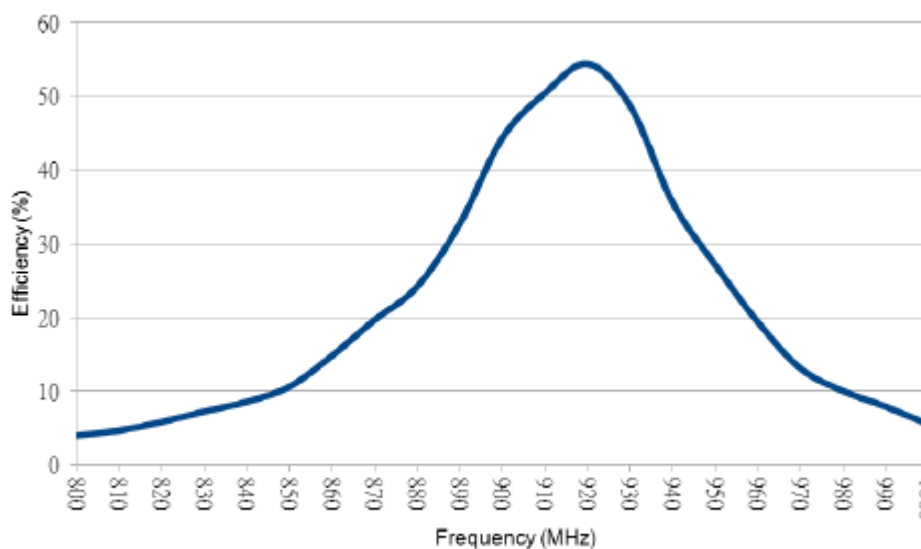


XY-Plane 868MHz
CIRCAD Antenna Pattern Measurement



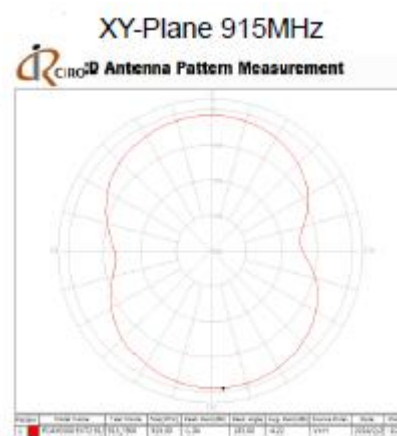
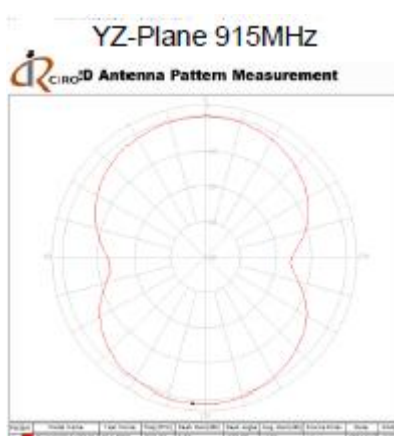
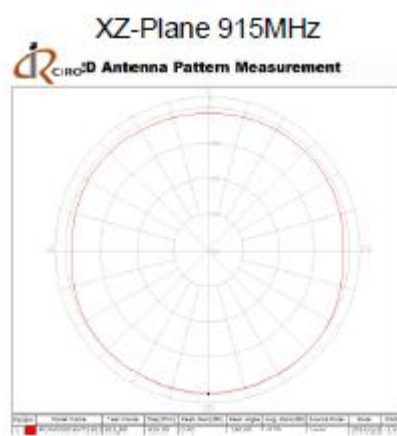


Return Loss : -20.75dB @915MHz

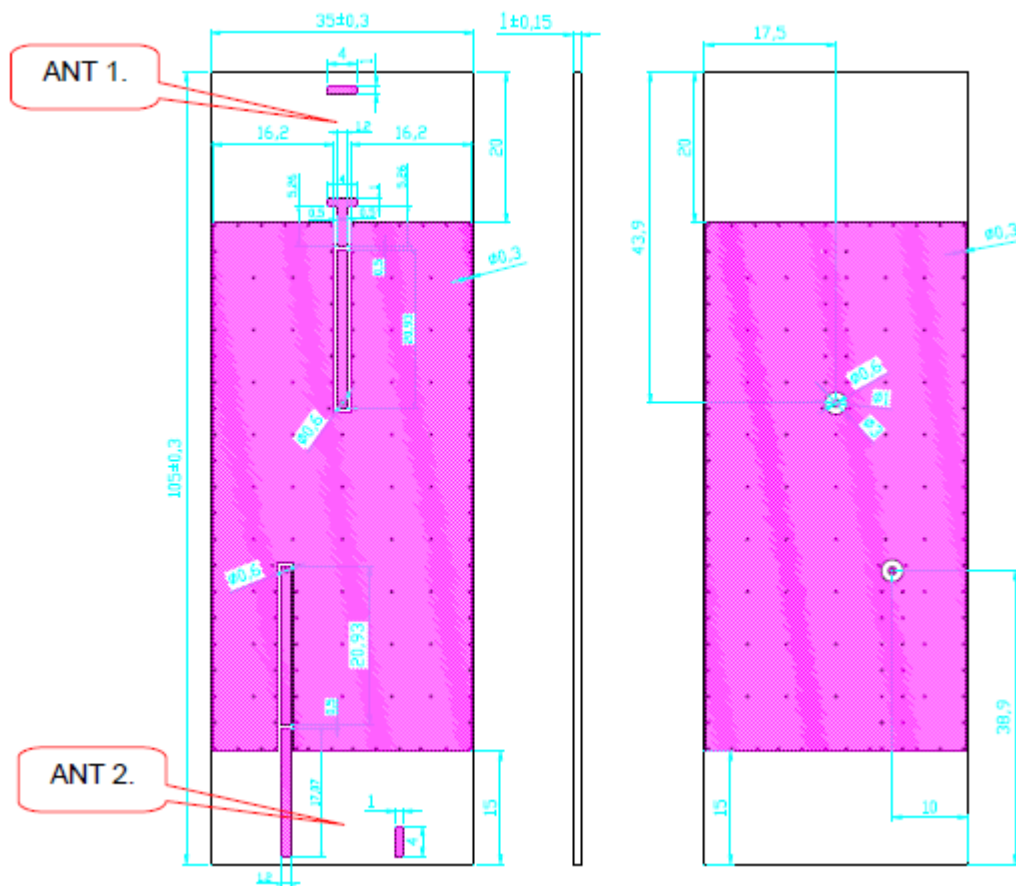


Efficiency(%) : 50.46 @915MHz

915MHz	Peak Gain (dBi)
XZ-Plane	0.40
YZ-Plane	1.17
XY-Plane	-1.04



E. DEMO BOARD DIMENSION:



F. MATCHING CIRCUIT:

