TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: Ceramic Patch Antenna 1227.6 / 1575.42 MHz 10MHz BW

TST Parts No.: TQ0006A

Vendor Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Hong Pu Lin Hong Pu Lin

Approval by: Andy Yu Andy Yu

Date: 9 / 26 / 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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Ceramic Patch Antenna 1224.6 / 1574.42 MHz 10MHz BW

MODEL NO.: TQ0006A REV. NO.1

A. MAXIMUM RATING:

1. Input Power Level : 1W
2. DC Voltage : 0V
3. Operating temperature range: -40°C to 105°C
4. Storage temperature range: -40°C to 105°C
5. Moisture Sensitive Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

B. CHARACTERISTICS:

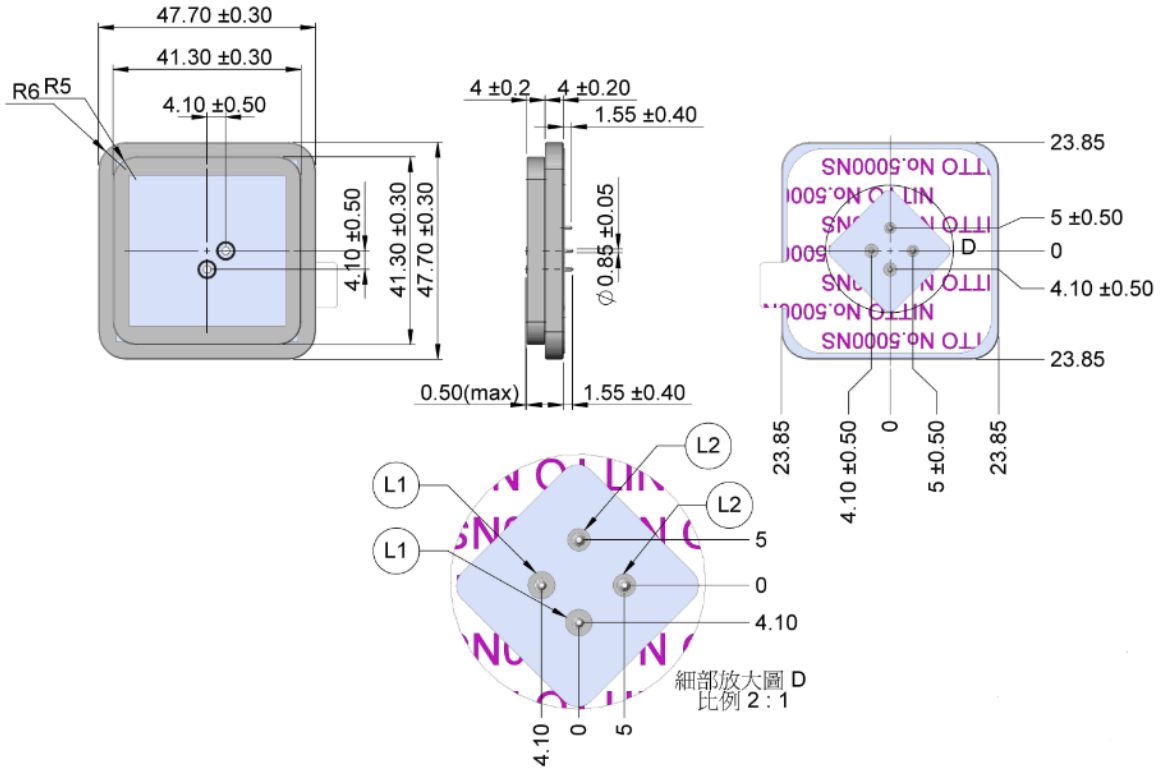
1. L1

Parameter		Unit	Spec.	Note
Center Frequency	**Fc**	MHz	1575.42	
Frequency Range		MHz	1574±10	
Return Loss		dB	10 Min	
Gain at Zenith		dB	4.0	
Polarization			Linear	
Impedance		Ohm	50	

2. L2

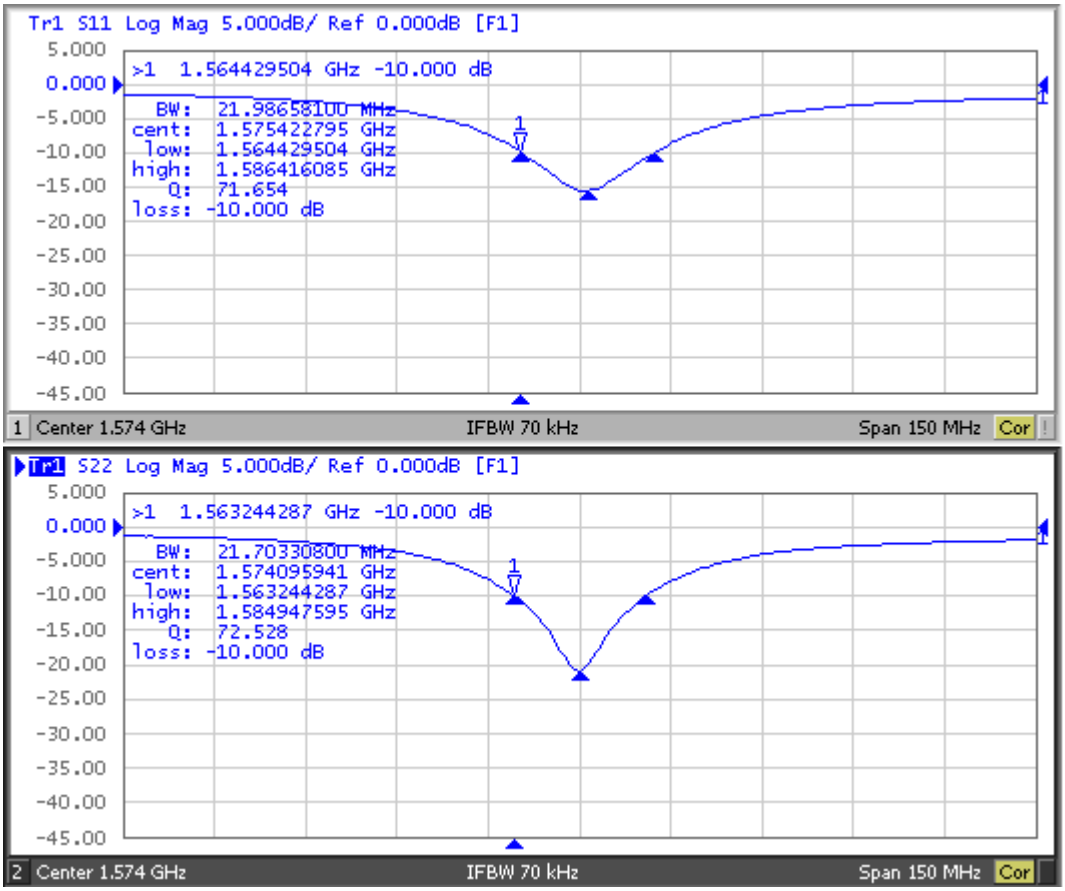
Parameter		Unit	Spec.	Note
Center Frequency	**Fc**	MHz	1227.6	
Frequency Range		MHz	1224±10	
Return Loss		dB	10 Min	
Gain at Zenith		dB	1.0	
Polarization			Linear	
Impedance		Ohm	50	

C. OUTLINE DRAWING:

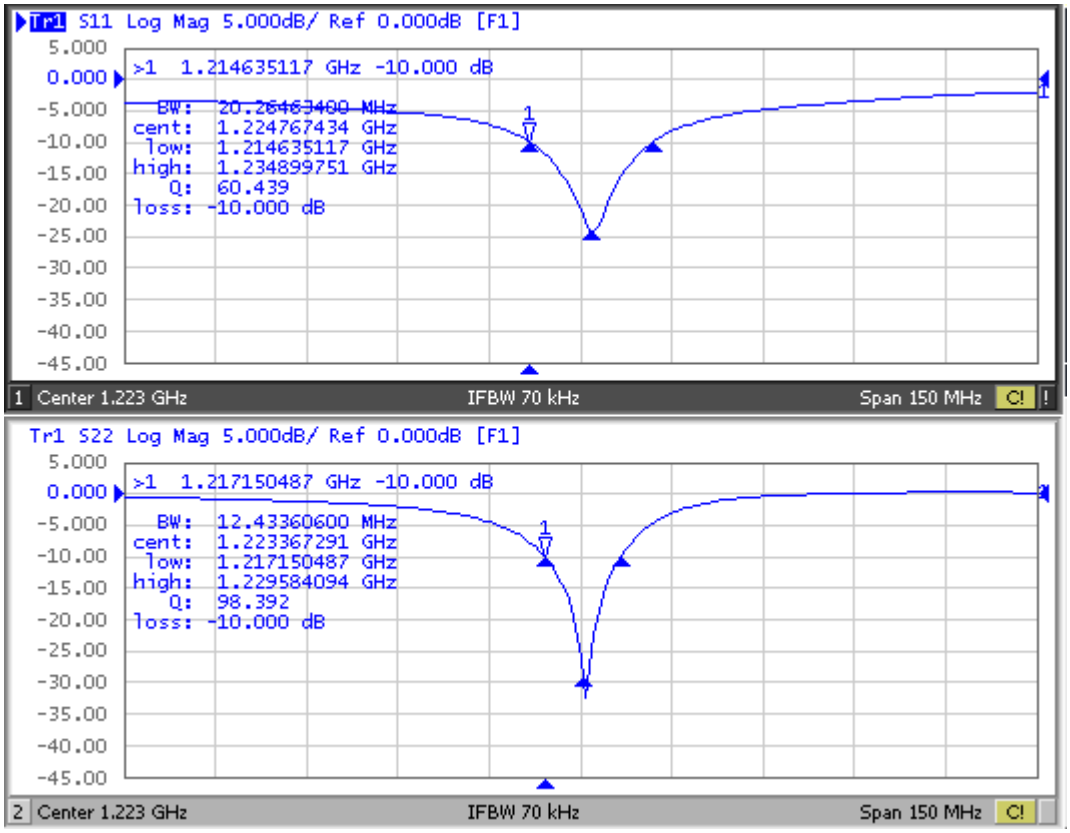


D. Frequency Characteristics :

L1: Return Loss



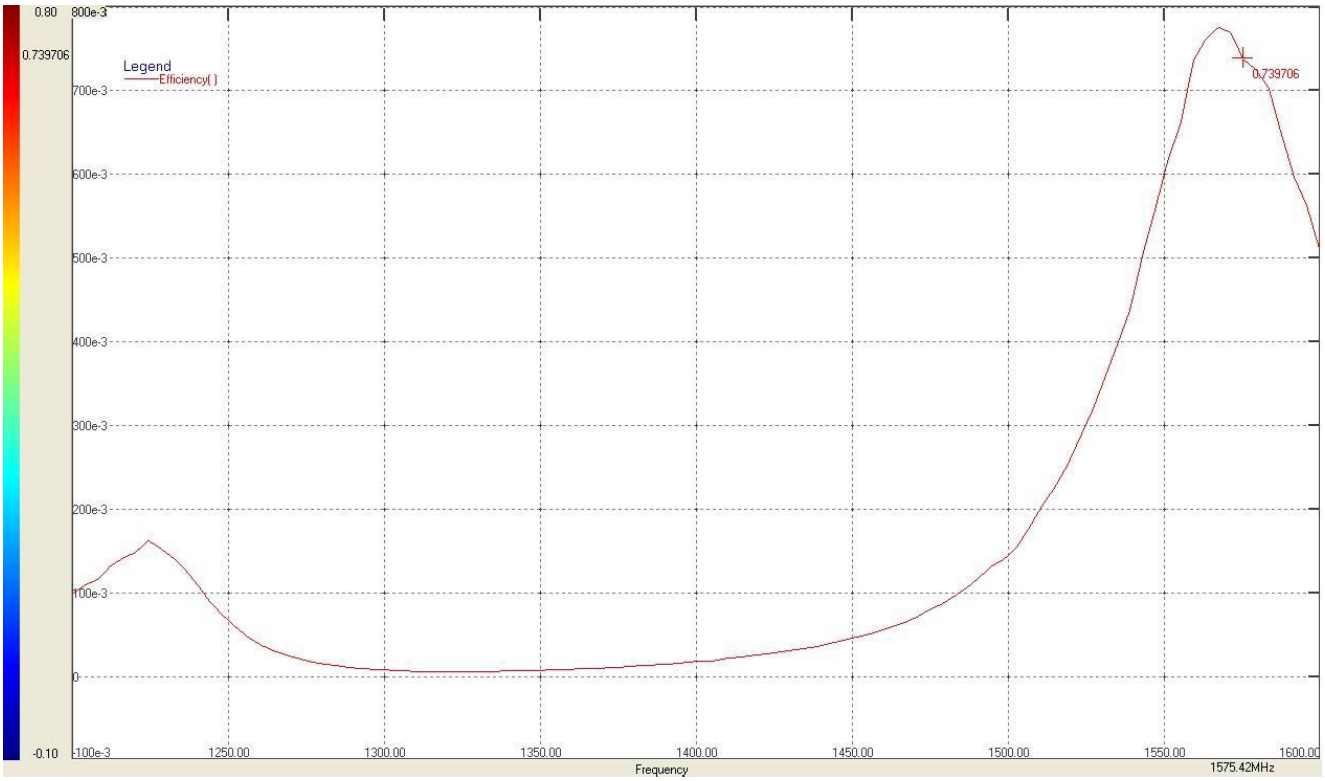
L2: Return Loss



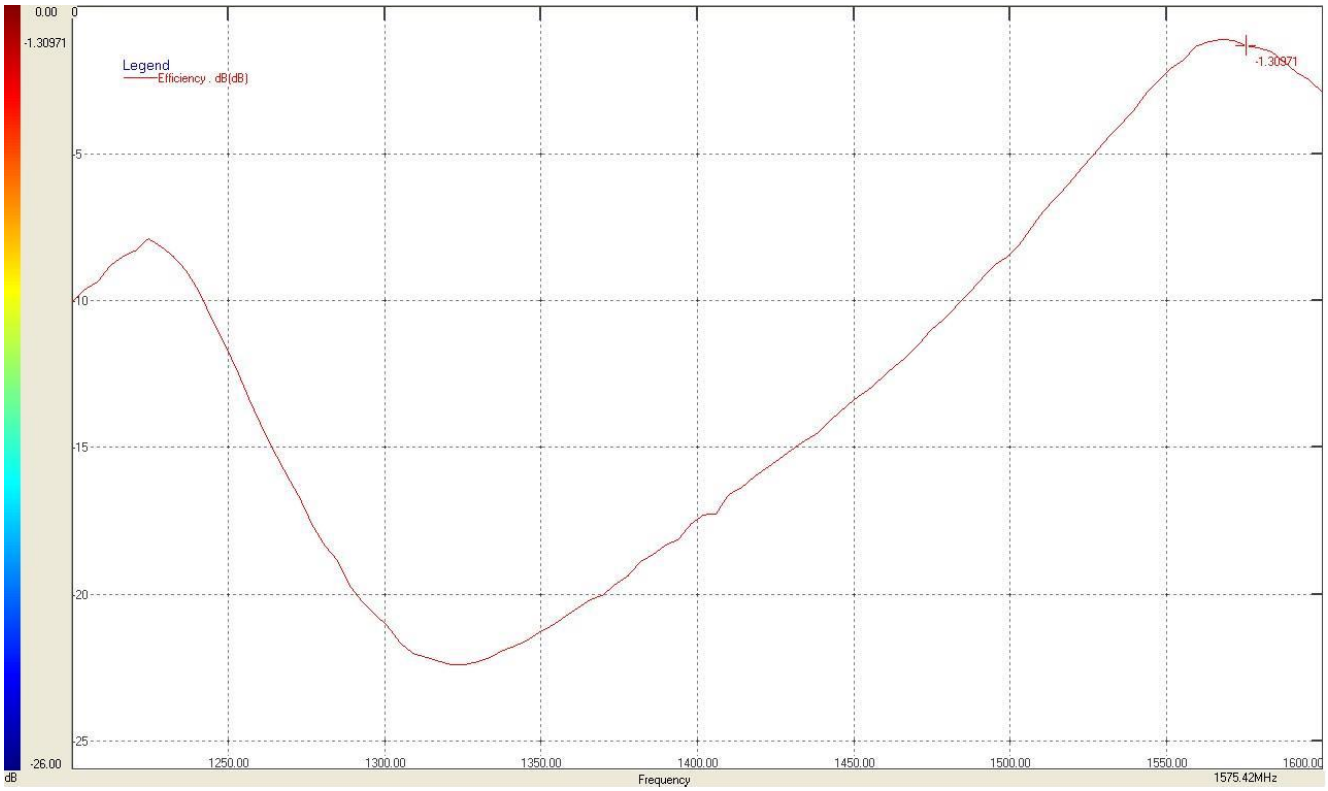
L1:on 70x70 Ground + Hybrid Coupler in Antenna Chamber S21 Log Mag Data

L2: on 70x70 Ground + Hybrid Coupler in Antenna Chamber S21 Log Mag Data

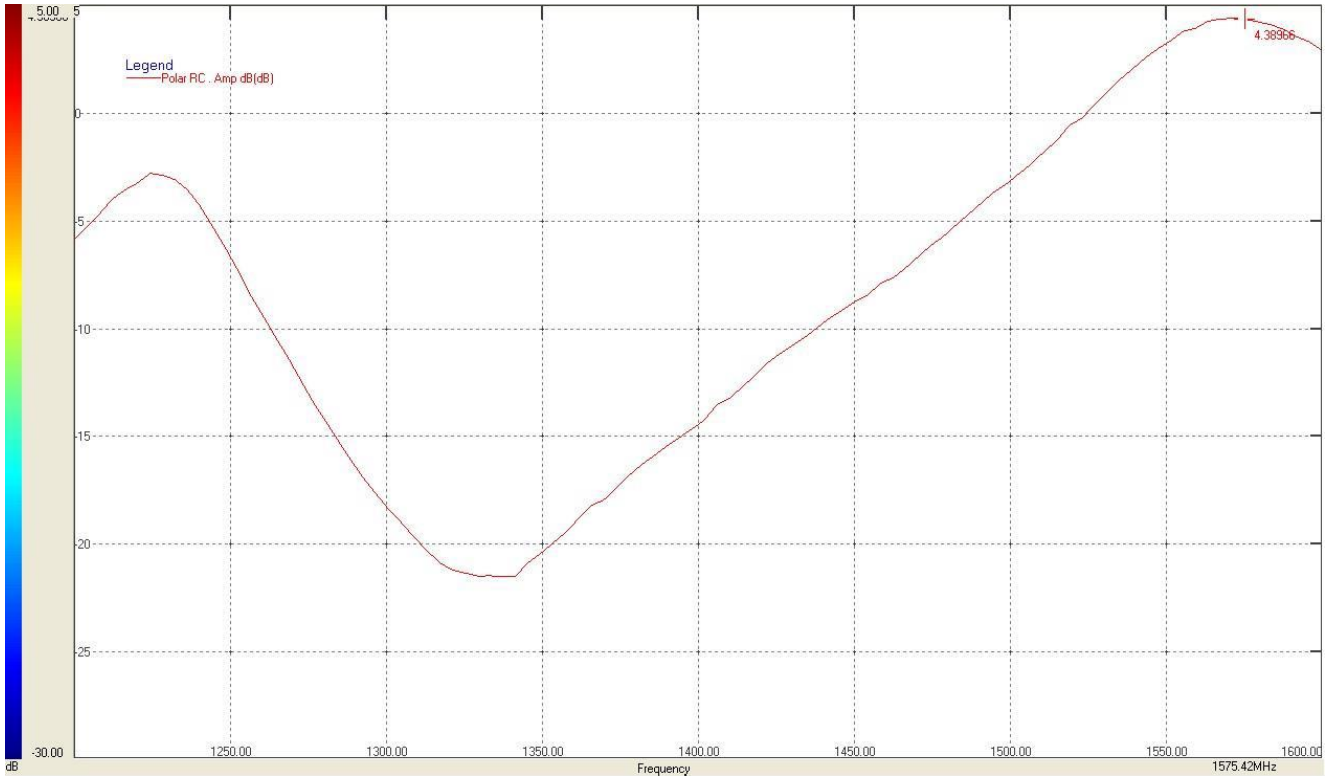
L1:Efficiency



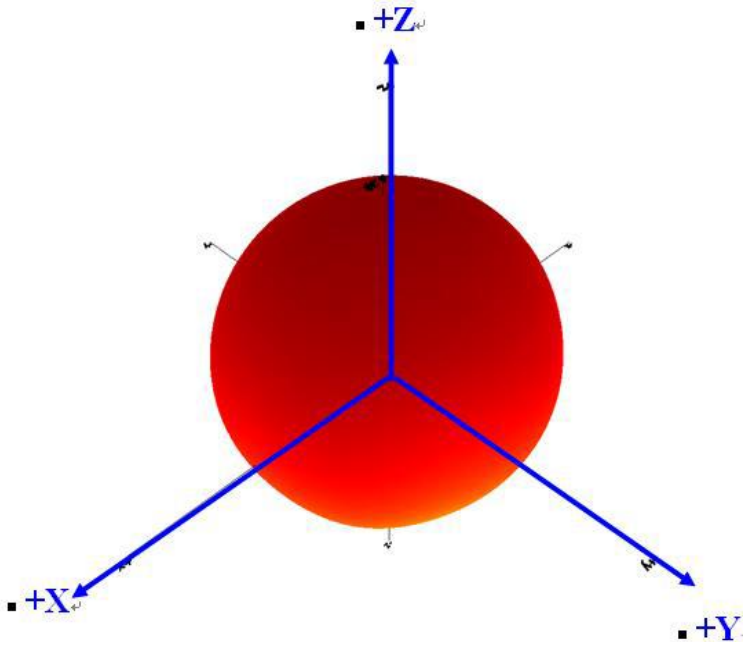
L1:Average Gain



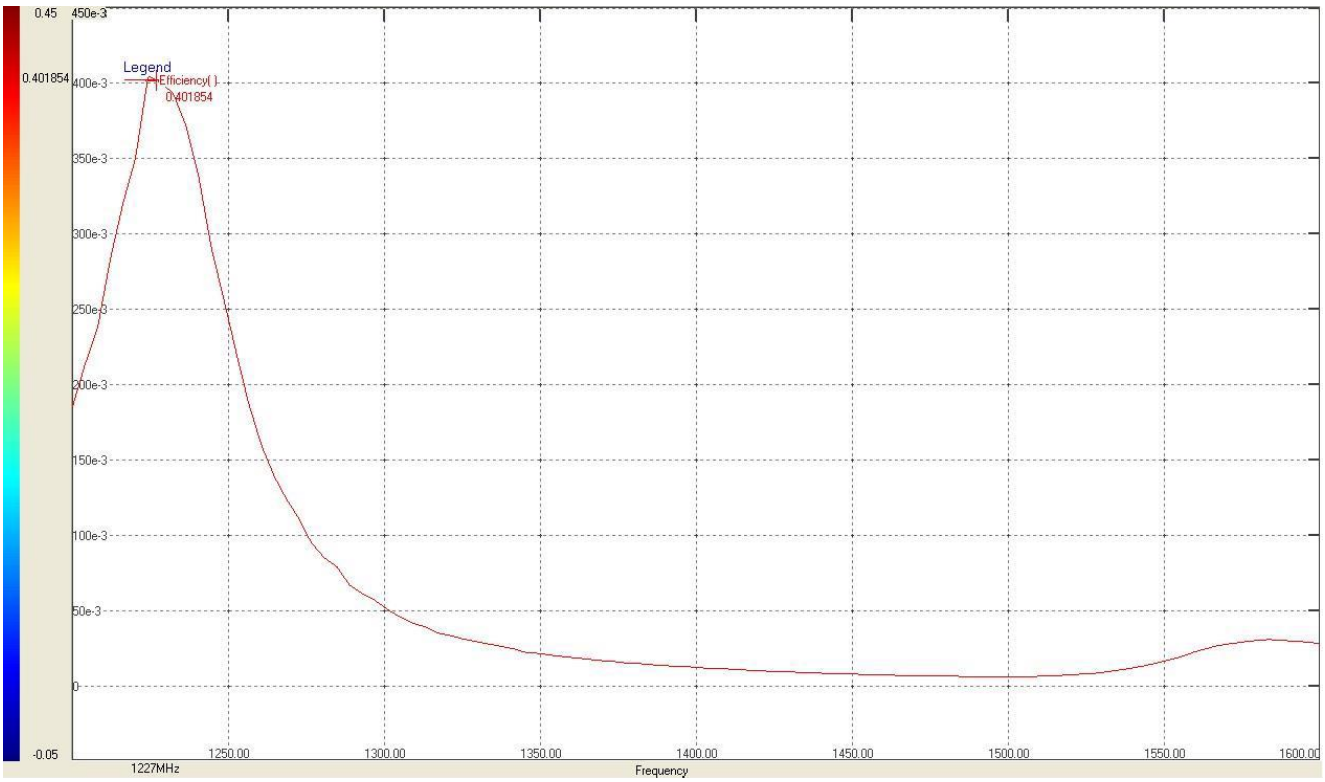
L1:Peak Gain



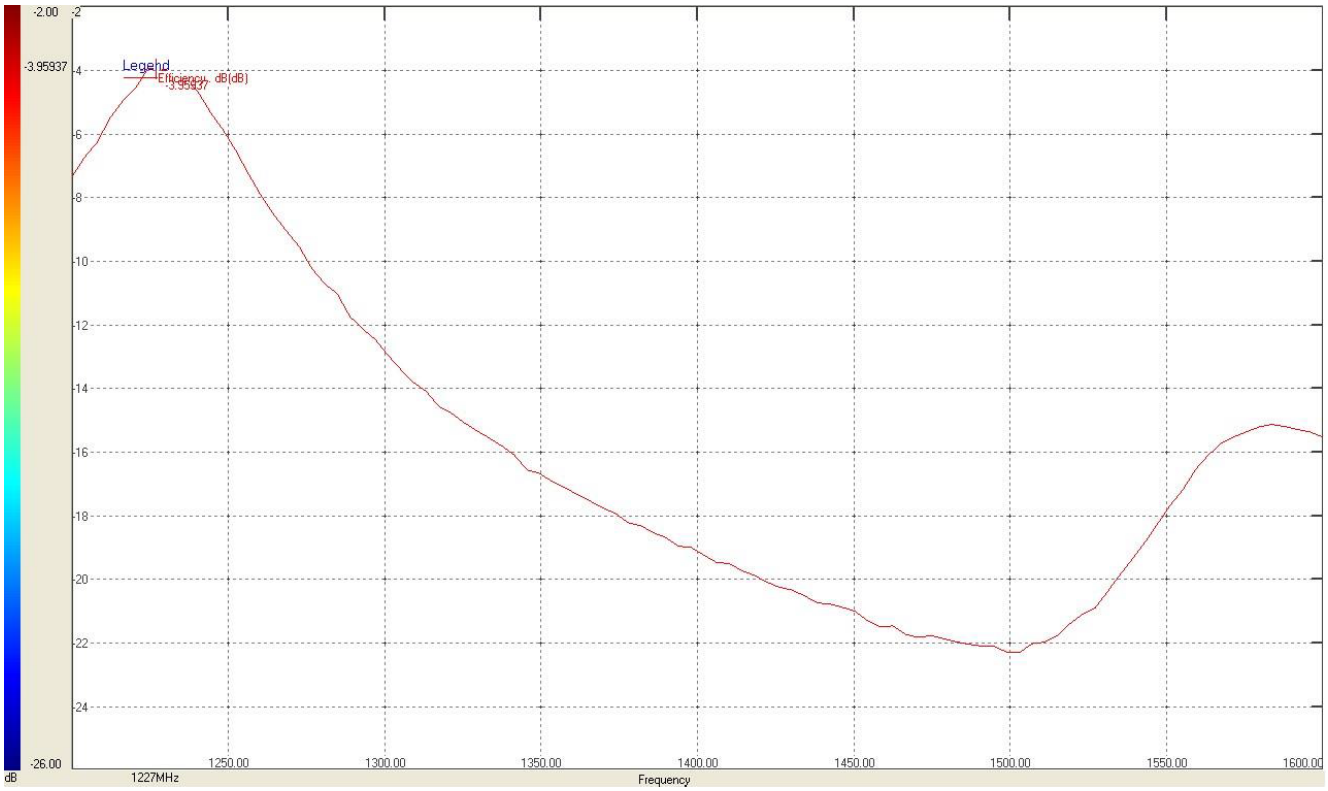
L1:3D Radiation Pattern (1575.42 MHz)



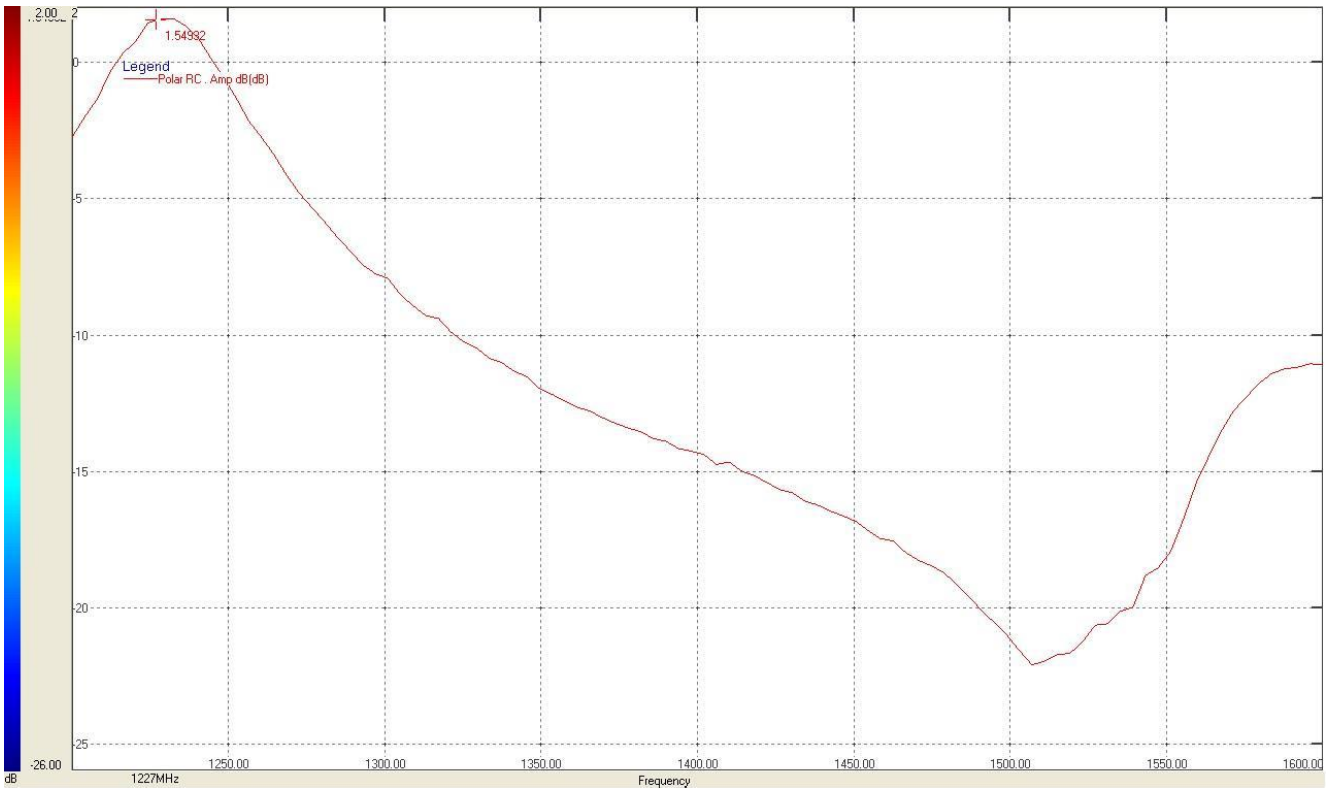
L2:Efficiency



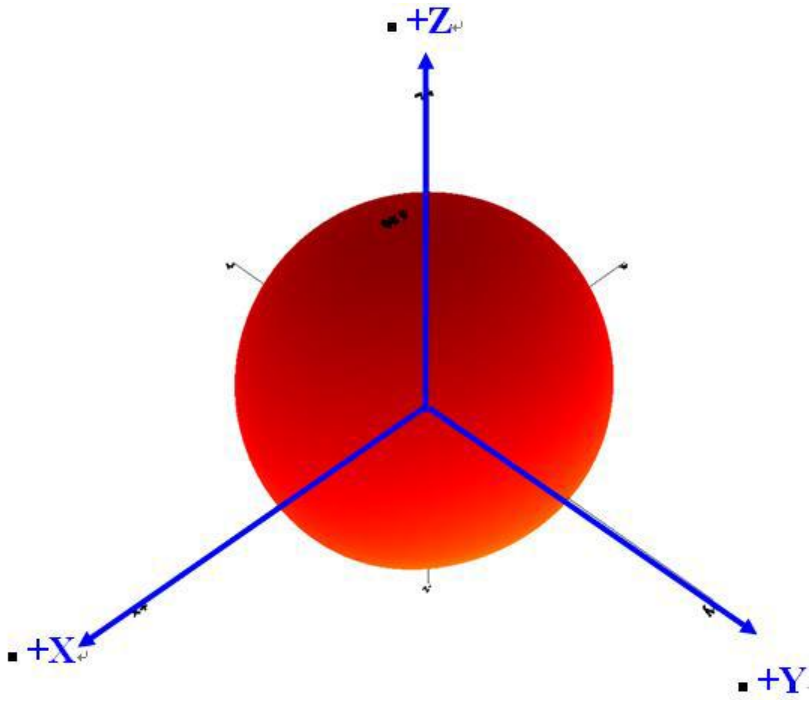
L1:Average Gain



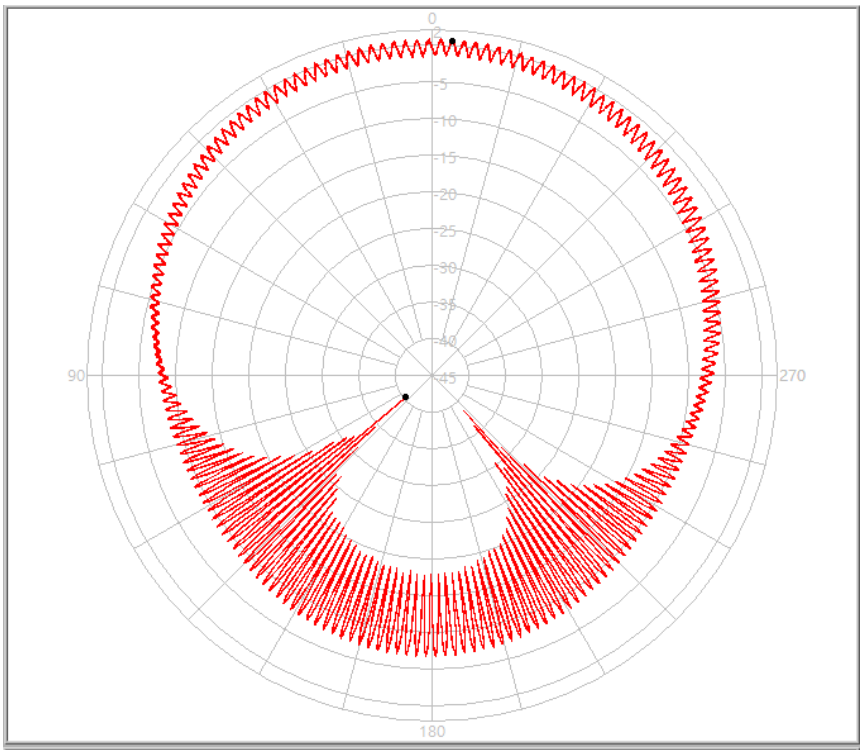
L1:Peak Gain



L1:3D Radiation Pattern (1575.42 MHz)

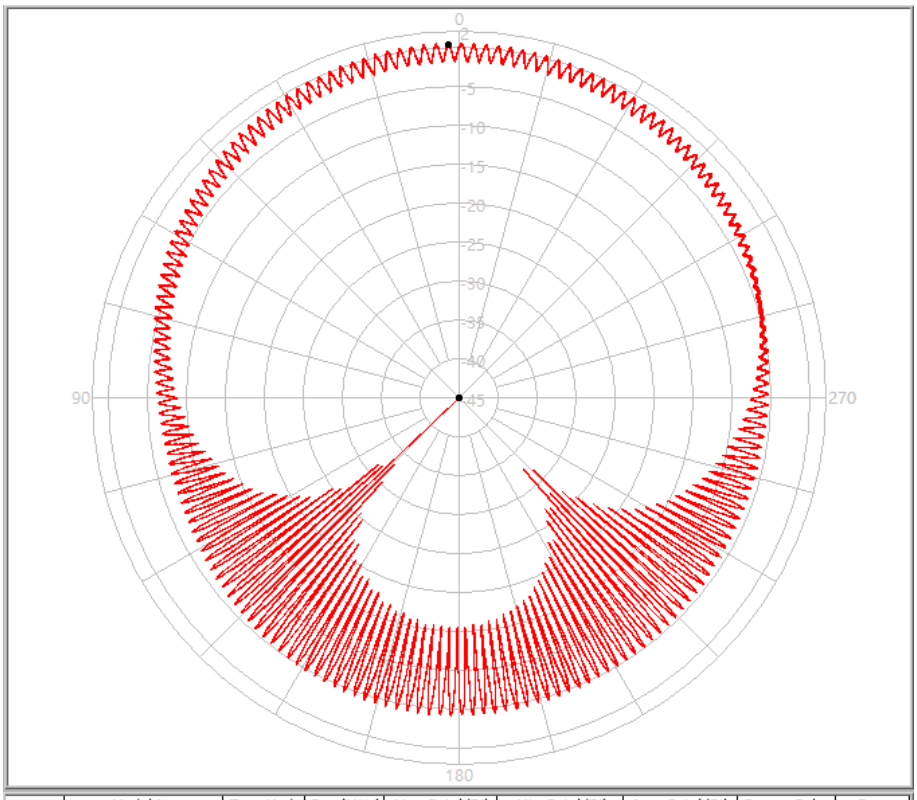


L1:Axial-Ratio



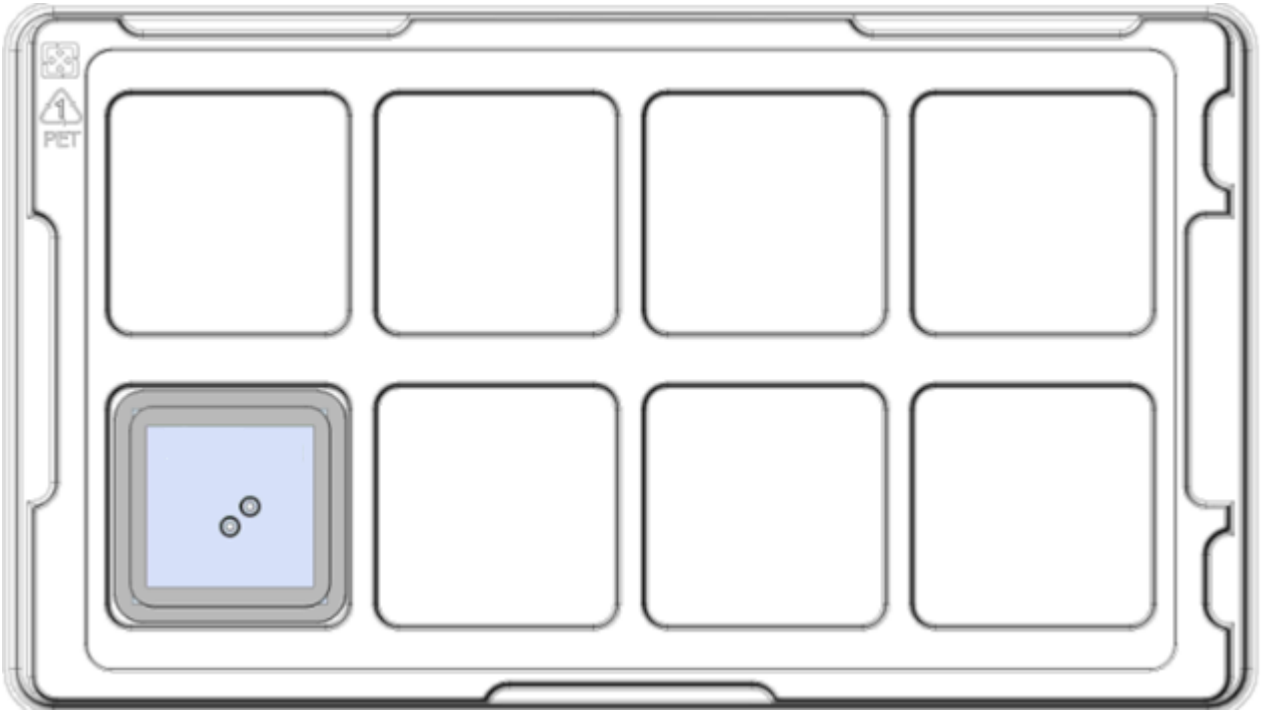
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	70x70for L1	Axial-Rati	1575.42	0.55 / 356.50	-40.34 / 130.06	-4.79	CP	2016/2/

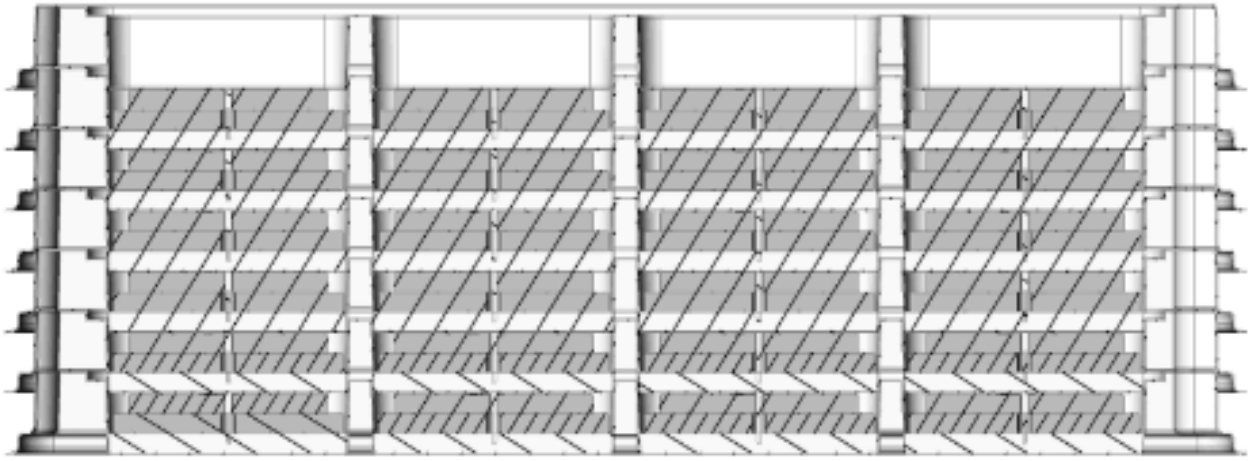
L2:Axial-Ratio

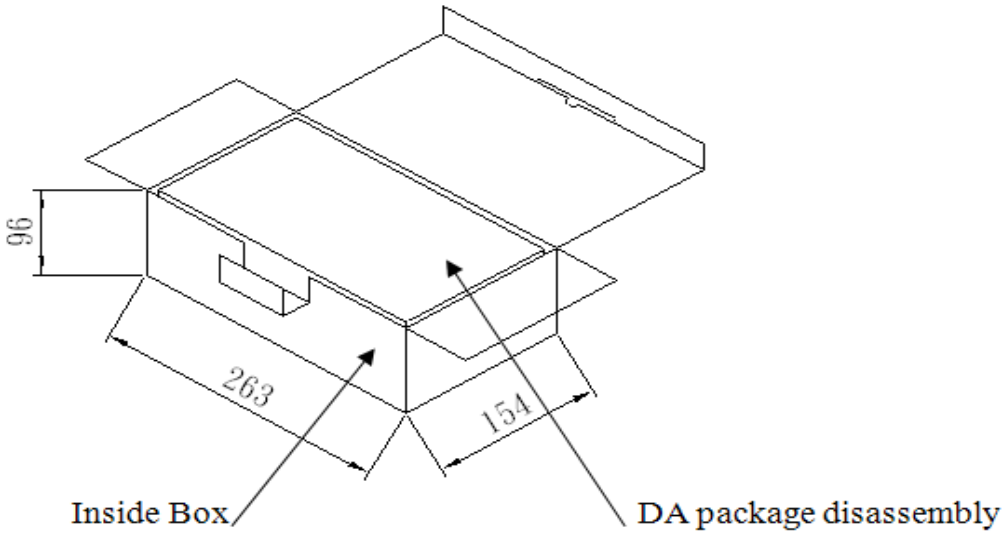


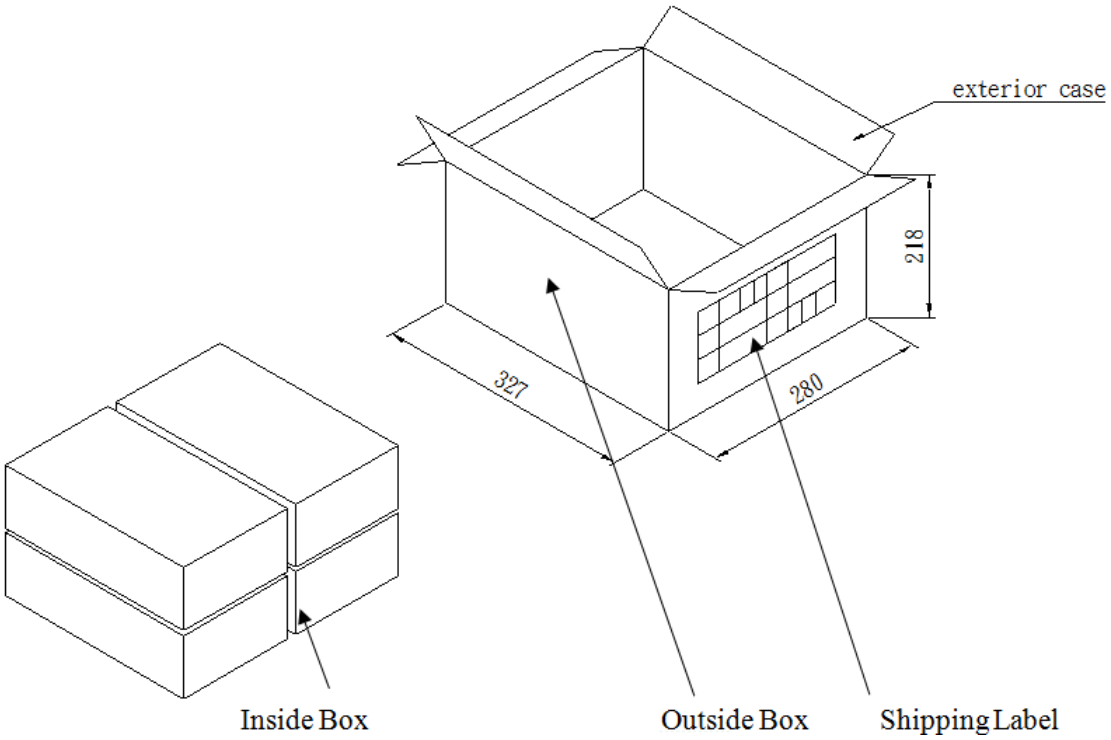
Pattern	Model No.	Test Mode	Freq(MHz)	Max Gain(dBi)	Min Gain(dBi)	Avg. Gain(dBi)	Source Polar.	Date
1	70x70for L2	Axial-Rati	1227.00	0.28 / 1.80	-51.66 / 133.65	-4.44	CP	2016/2/

E. Packing:








exterior case
218
327
280
Inside Box
Outside Box
Shipping Label