BTFA Series

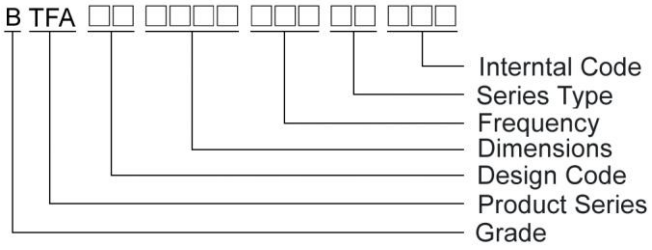
Features

- Small size low-profile, low cost and lightweight type
- Wide bandwidth and Omni-directional
- Supported with Dip-type, SMD, and Co-axial cable connecting
- Customized

Applications

- Bluetooth, Wireless Router, Set Top Box and Home digital
- ISM band, Lora, Sigfox, LTE, NB-IOT, GPS, WiFi and Car use.

Product Identification



Shapes and Dimensions

FIG 1

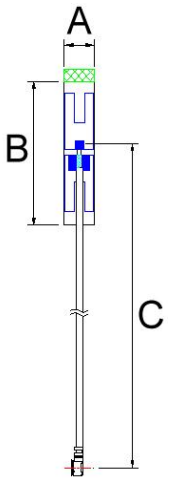


FIG 2

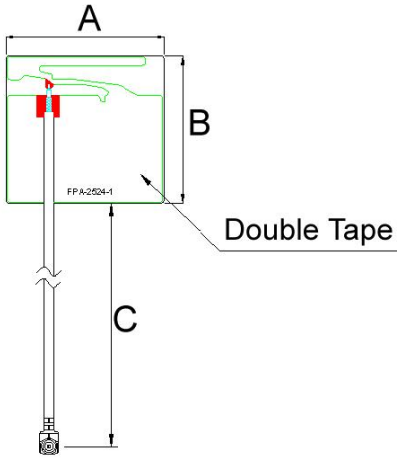
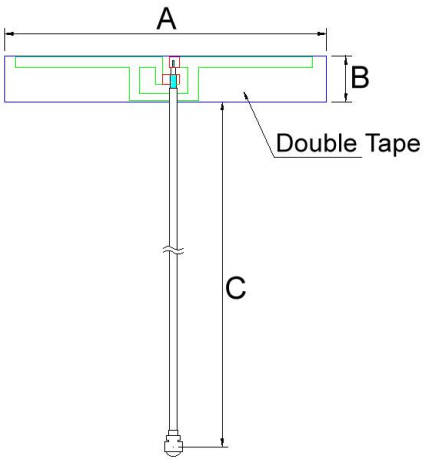


FIG 3



Dimensions in mm

TYPE	FIG	A	B	C
BTFA0024055G0C1A13	1	5.10	24.25	100±5
BTFA00252425GC1A01	2	25.3	23.6	120±5
BTFA0046062G4C1A03	3	46.5	6.65	150±5

CHILISIN ELECTRONICS CORP.

Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance (Ω)	Return Loss dB(Max)	VSWR (Max)	Radiation	Peak Gain (dBi)	Polarization	Admitted Power (W)
BTFA0024055G0C1A13	5.15~5.85	50	-10	2	Omni-directional	4.90	Linear Vertical	1
BTFA00252425GC1A01	2.4~2.5 5.15~5.85	50	-10	2	Omni-directional	3.37 2.85	Linear Vertical	1
BTFA0046062G4C1A03	2.4~2.5	50	-10	2	Omni-directional	3.87	Linear Vertical	1

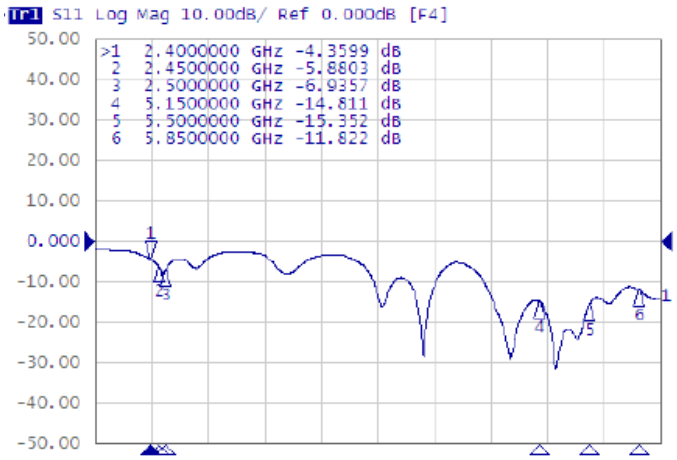
Physical Properties

Part Number	Antenna Material	Cable	Color	Connector	Double Tape
BTFA0024055G0C1A13	**FPC**	RF-113	Black	IPEX Compatible	3M 467
BTFA00252425GC1A01	FPC	RF-113	Black	TNOV	G9000
BTFA0046062G4C1A03	FPC	RF-113	Black	TNOV	G9000

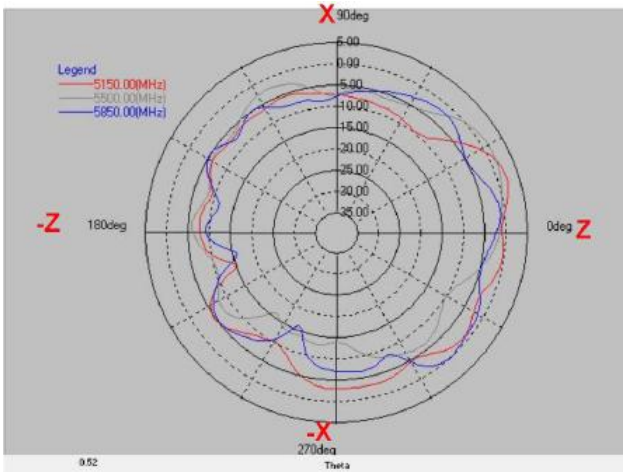
- Operating temperature range - 20℃ ~ +65℃
- Storage temperature range - 30℃ ~ +75℃

BTFA0024055G0C1A13

Return Loss S11

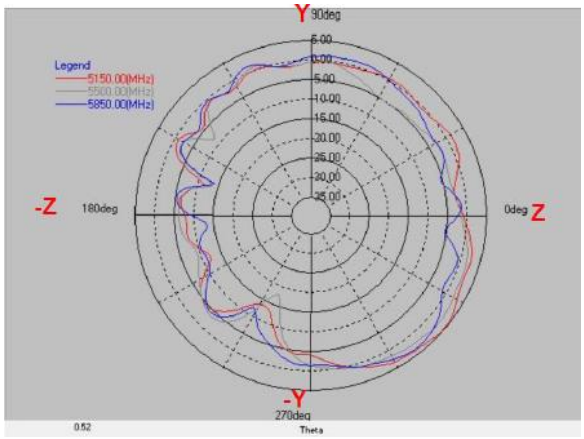


Frequency(MHz)：5150~5850. Pattern Field：Z-X plane



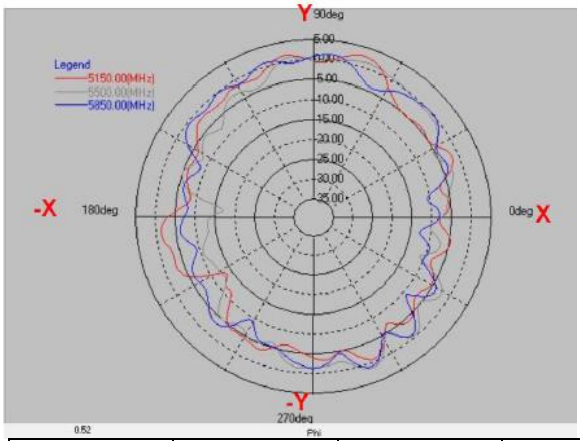
Layer	Max value	Min value	Average
5150(MHz)	2.25 dB	-15.19 dB	-4.15 dB
5500(MHz)	1.46 dB	-16.30 dB	-4.92 dB
5850(MHz)	-0.08 dB	-16.44 dB	-5.02 dB

Frequency(MHz)：5150~5850. Pattern Field：Z-Y plane



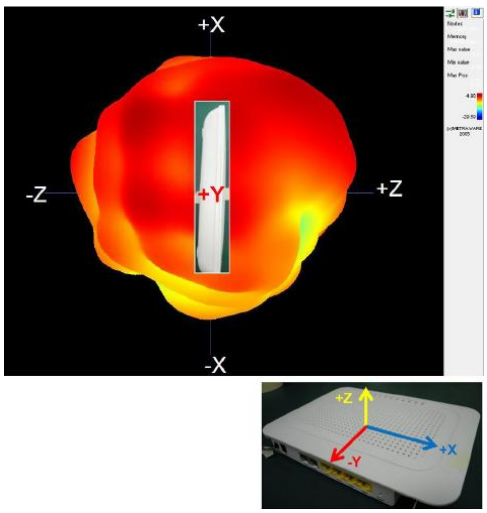
Layer	Max value	Min value	Average
5150(MHz)	4.87 dB	-14.03 dB	-0.64 dB
5500(MHz)	2.90 dB	-18.09 dB	-1.78 dB
5850(MHz)	3.56 dB	-13.87 dB	-1.49 dB

Frequency(MHz)：5150~5850. Pattern Field：X-Y plane

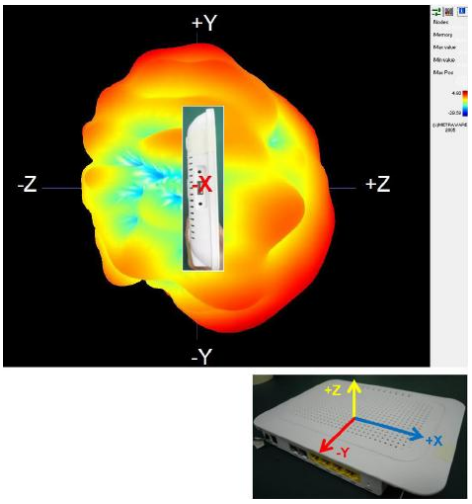


Layer	Max value	Min value	Average
5150(MHz)	2.51 dB	-13.78 dB	-3.22 dB
5500(MHz)	1.30 dB	-17.05 dB	-3.21 dB
5850(MHz)	1.30 dB	-12.85 dB	-3.06 dB

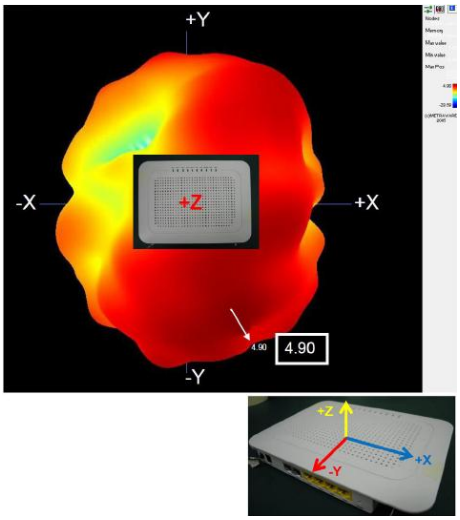
Frequency(MHz)：5150. Pattern Field：Z-X plane



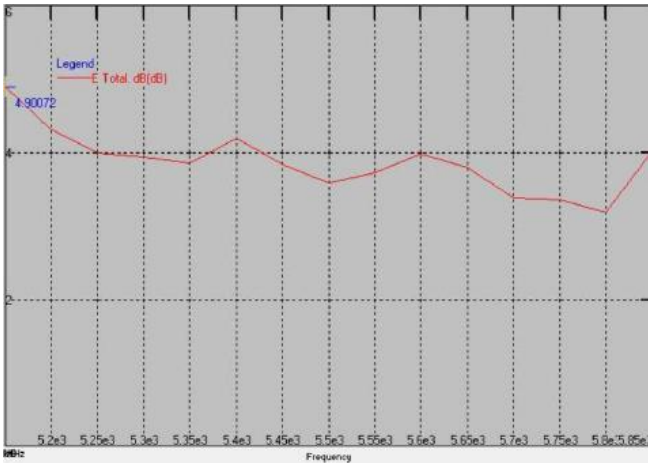
Frequency(MHz)：5150. Pattern Field：Z-Y plane



Frequency(MHz)：5150. Pattern Field：X-Y plane



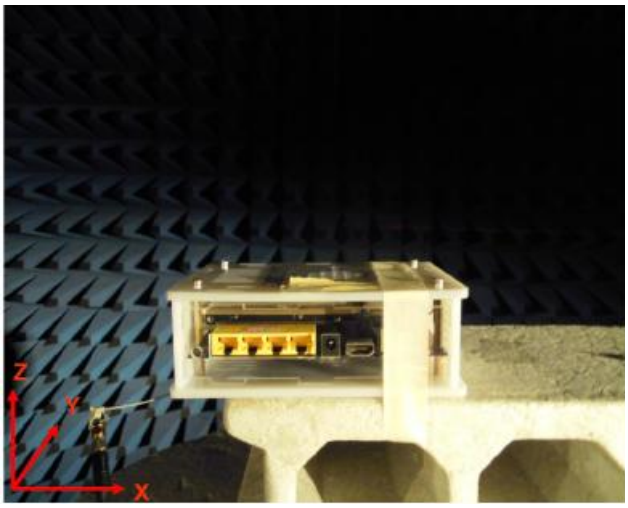
Peak Gain

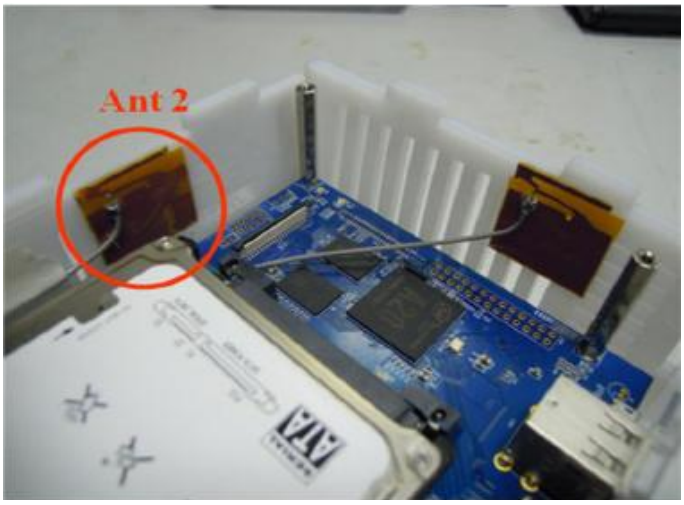


Peak Gain：Max 2.90 dBi

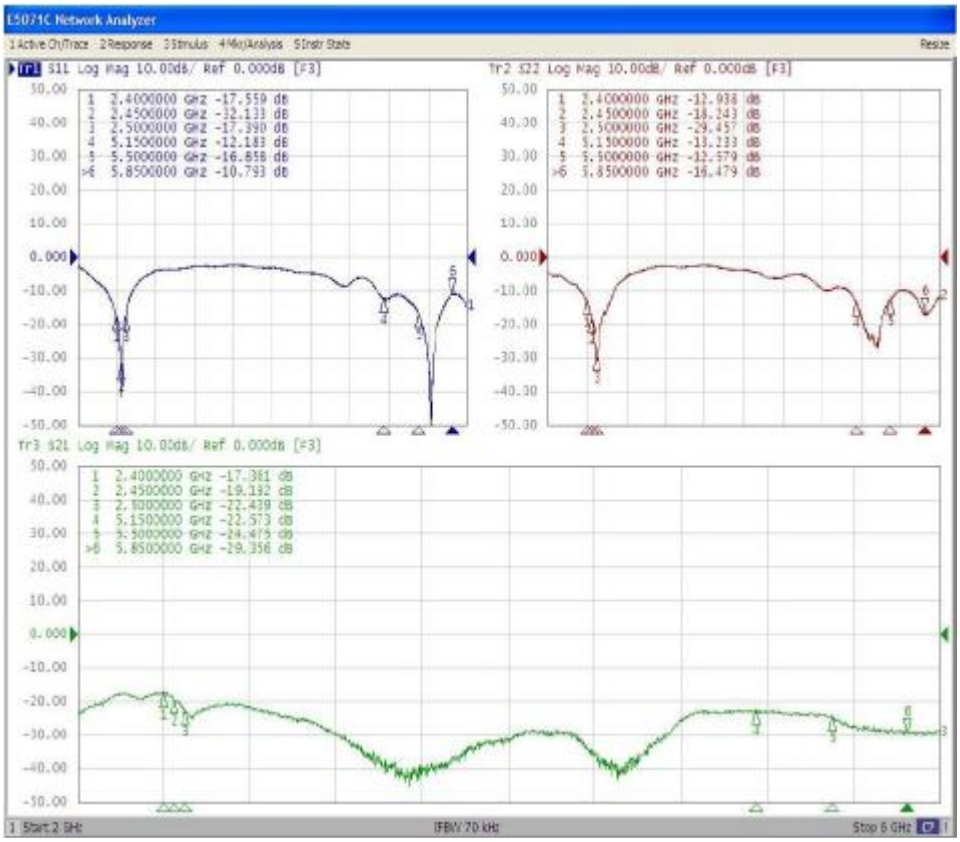
BTFA00252425GC1A01

Experimental Setup

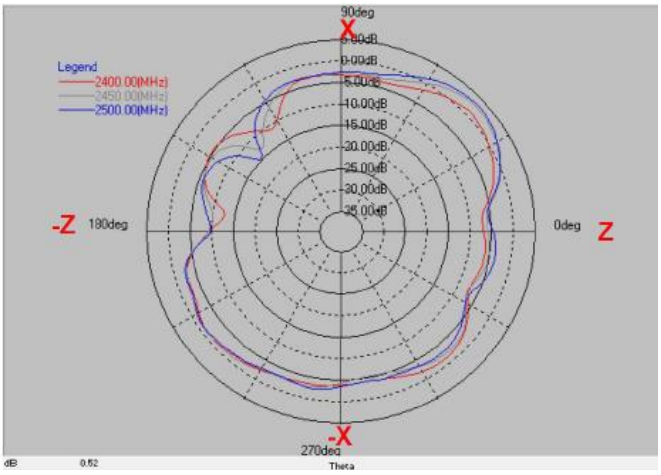




Return Loss S11：Ant 1 / S22：Ant 2 / S21：Isolation

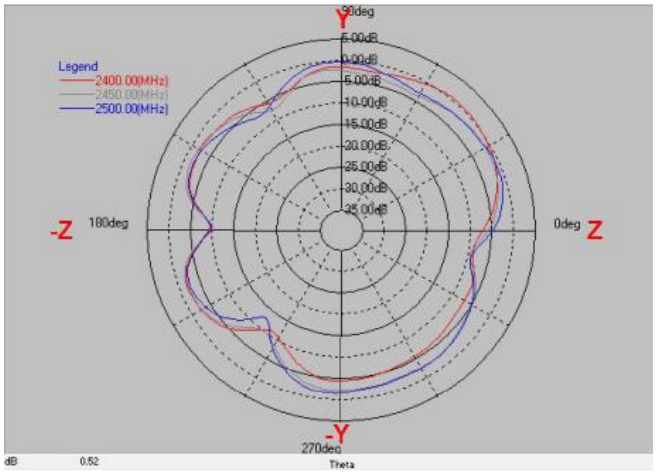


Frequency(MHz)：2400~2500. X-Z Plane



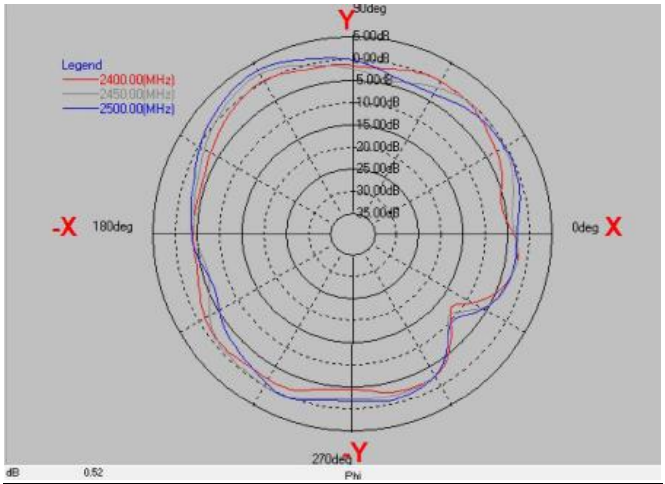
Layer	Max value	Min value	Average
2400(MHz)	0.91 dB	-12.85 dB	-3.42 dB
2450(MHz)	2.89 dB	-13.34 dB	-2.76 dB
2500(MHz)	3.37 dB	-14.94 dB	-2.46 dB

Frequency(MHz)：2400~2500. Y-Z Plane



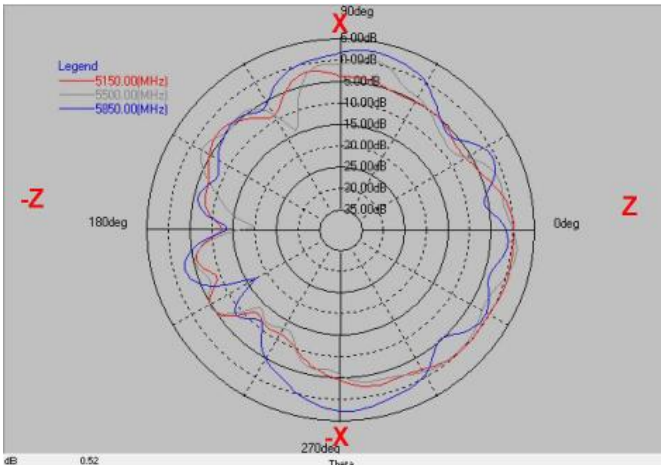
Layer	Max value	Min value	Average
2400(MHz)	0.42 dB	-11.32 dB	-3.63 dB
2450(MHz)	-1.19 dB	-10.21 dB	-3.66 dB
2500(MHz)	-0.46 dB	-12.89 dB	-3.34 dB

Frequency(MHz)：2400~2500. X-Y Plane



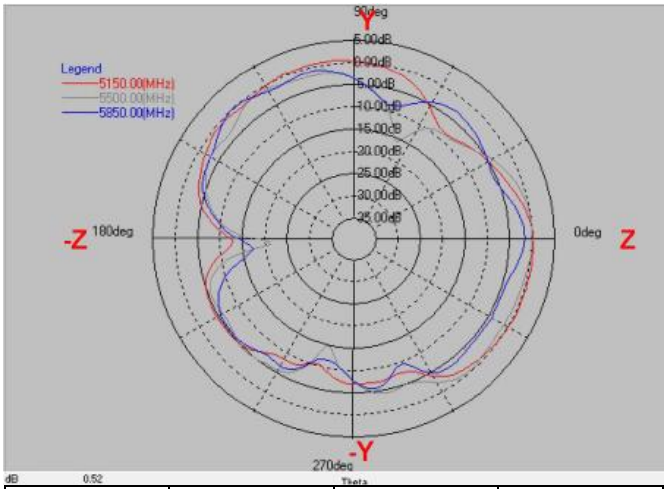
Layer	Max value	Min value	Average
2400(MHz)	0.10 dB	-12.12 dB	-2.49 dB
2450(MHz)	1.92 dB	-11.26 dB	-1.82 dB
2500(MHz)	2.81 dB	-9.85 dB	-1.50 dB

Frequency(MHz)：5150~5850. X-Z Plane



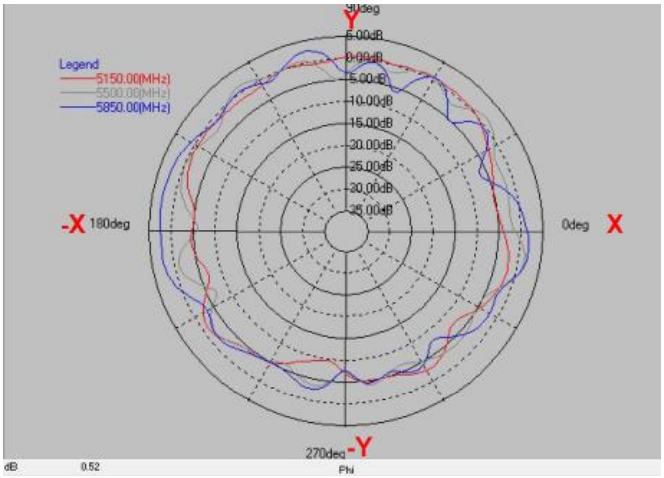
Layer	Max value	Min value	Average
5150(MHz)	0.54 dB	-12.50 dB	-3.69 dB
5500(MHz)	1.28 dB	-20.11 dB	-3.52 dB
5850(MHz)	2.60 dB	-17.20 dB	-1.90 dB

Frequency(MHz)：5150~5850. Y-Z Plane



Layer	Max value	Min value	Average
5150(MHz)	0.45 dB	-12.88 dB	-2.70 dB
5500(MHz)	0.18 dB	-21.21 dB	-3.68 dB
5850(MHz)	-0.12 dB	-17.40 dB	-4.46 dB

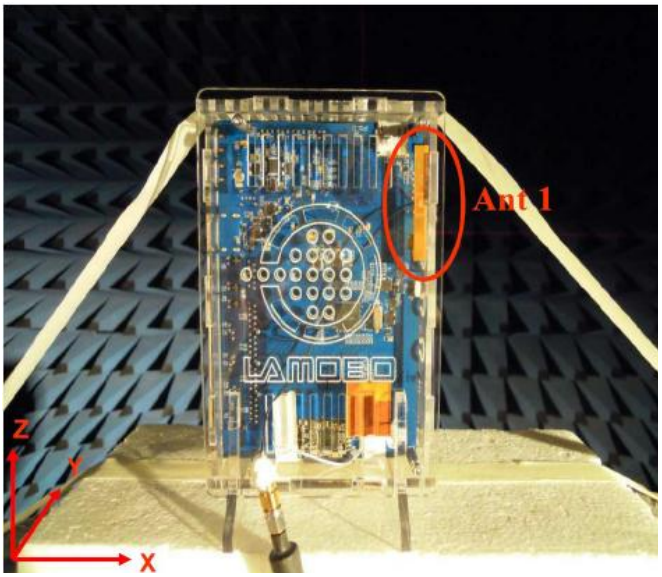
Frequency(MHz)：5150~5850. X-Y Plane



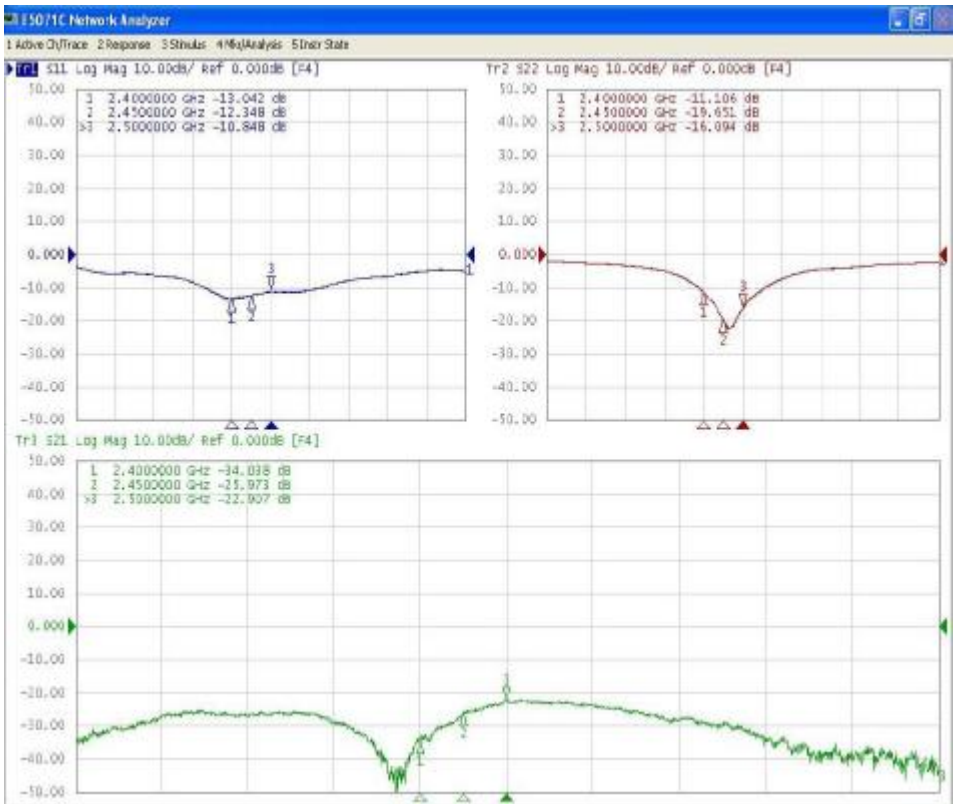
Layer	Max value	Min value	Average
5150(MHz)	0.59 dB	-9.84 dB	-2.47 dB
5500(MHz)	1.49 dB	-7.77 dB	-1.98 dB
5850(MHz)	2.85 dB	-8.05 dB	-0.94 dB

BTFA0046062G4C1A03

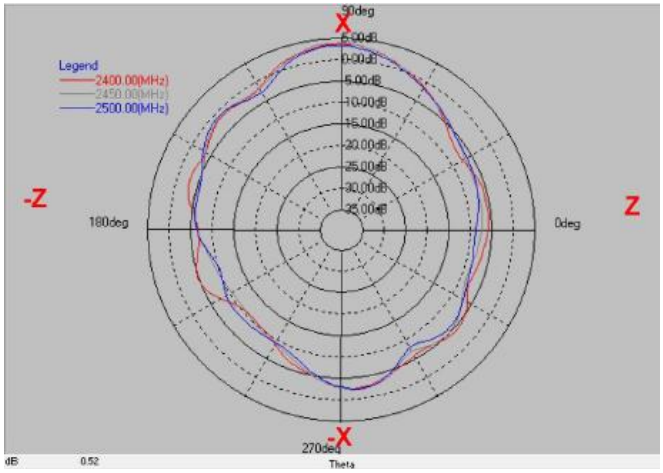
Experimental Setup



Return Loss S11：Ant 1 / S22：Ant 2 / S21：Isolation

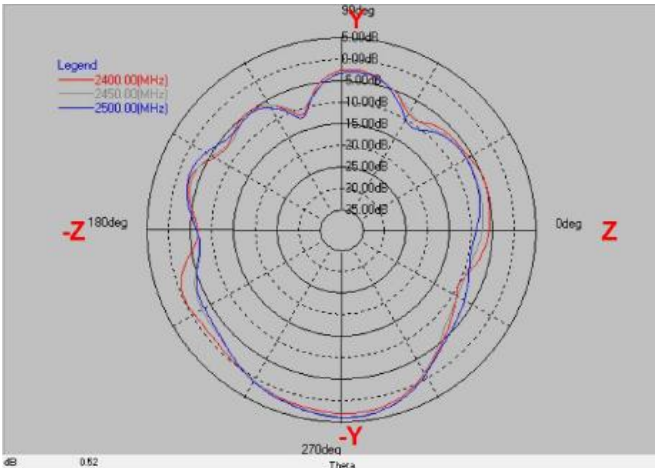


Frequency(MHz)：2400~2500. Z- X Plane



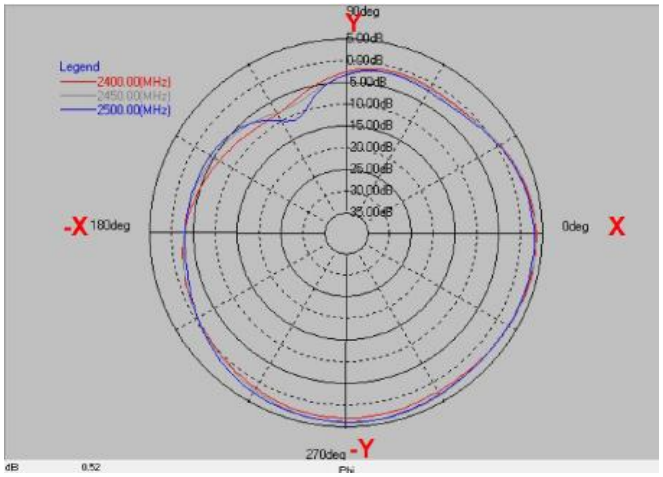
Layer	Max value	Min value	Average
2400(MHz)	3.48 dB	-10.84 dB	-2.85 dB
2450(MHz)	3.72 dB	-10.91 dB	-3.04 dB
2500(MHz)	3.12 dB	-10.28 dB	-3.40 dB

Frequency(MHz)：2400~2500. Z- Y Plane



Layer	Max value	Min value	Average
2400(MHz)	2.89 dB	-11.62 dB	-2.50 dB
2450(MHz)	3.86 dB	-10.53 dB	-2.62 dB
2500(MHz)	3.76 dB	-12.27 dB	-2.56 dB

Frequency(MHz)：2400~2500. X- Y Plane



Layer	Max value	Min value	Average
2400(MHz)	3.65 dB	-8.49 dB	0.50 dB
2450(MHz)	3.87 dB	-8.27 dB	0.87 dB
2500(MHz)	3.74 dB	-11.43 dB	0.72 dB

单击下面可查看定价，库存，交付和生命周期等信息

>>CHILISIN(奇力新)