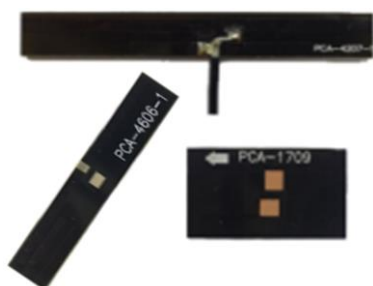


## BTPA Series



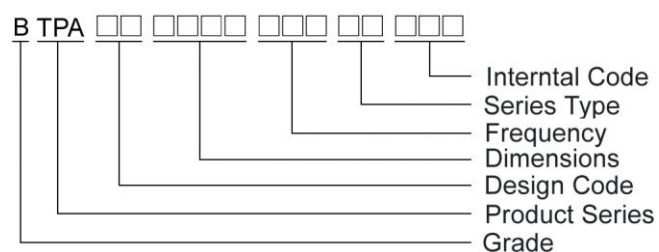
### Features

- 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

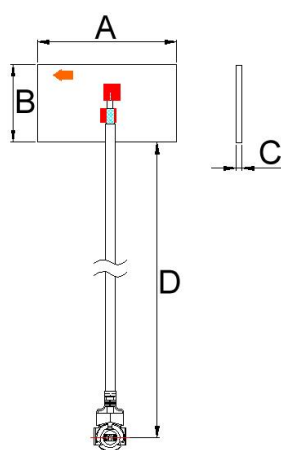


FIG 2

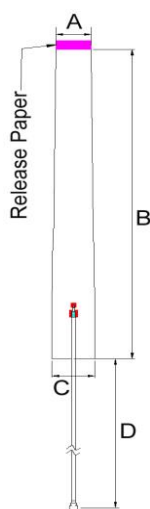
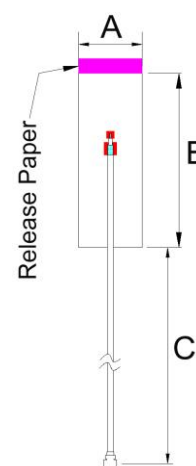


FIG 3



Dimensions in mm

TYPE	FIG	A	B	C	D
BTPA0017095G0C1B19	1	17.5	9.8	0.8	110±5
BTPA0010136G0C1A01	2	10.6	130	13	100±5
BTPA0012353G8C1A01	3	12.5	35	100±5	-
BTPA0012353G9C1A01	3	12.5	35	100±5	-

## Shapes and Dimensions

FIG 4

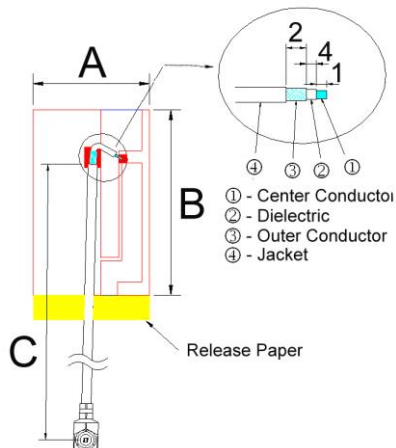


FIG 5

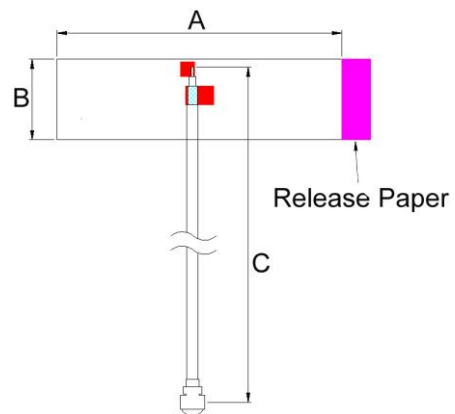


FIG 6

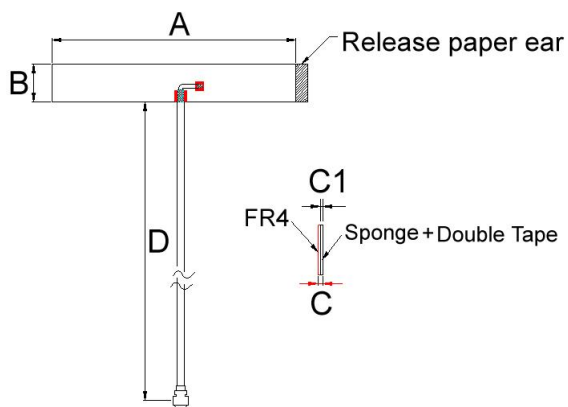
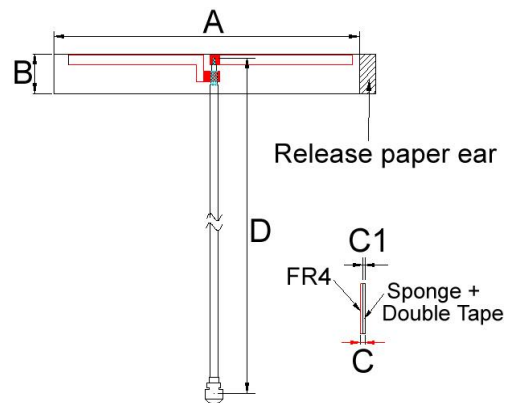


FIG 7



Dimensions in mm

TYPE	FIG	A	B	C	D
BTPA00221425GC1A09	4	14.3	22.7	143±3	-
BTPA0030082G4C1A04	5	30	8.5	220±2	-
BTPA00420725GC1A04	6	42	6.5	1.8±0.5	1.0±0.3
BTPA0046062G4C1B03	7	46.5	6	2.1±0.5	1.3±0.3

## PCB Antenna BTPA Series

### Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance ( $\Omega$ )	Return Loss dB(Max)	VSWR (Max)	Radiation	Peak Gain (dB)	Polarization	Admitted Power (W)
BTPA0017095G0C1B19	5.15~5.85	50	-10	-	Omni-directional	2.67	Linear Vertical	1
BTPA0010136G0C1A01	0.617~0.96	50	-	4	Omni-directional	0.59	Linear Vertical	1
	1.71~2.17					3.74		
	2.3~2.7					3.51		
	3.3~3.8					3.7		
	4.4~5					4		
	5.15~5.85					4.87		
BTPA0012353G8C1A01	3.3~3.8	50	-10	-	Omni-directional	2.69	Linear Vertical	1
BTPA0012353G9C1A01	3.3~3.9	50	-7	-	Omni-directional	4.89	Linear Vertical	1
BTPA00221425GC1A09	2.4	50	-10	2	Omni-directional	2.78	Linear Vertical	1
	5					2.53		
BTPA0030082G4C1A04	2.4~2.5	50	-10	-	Omni-directional	3.37	Linear Vertical	1
BTPA00420725GC1A04	2.4	50	-10	-	Omni-directional	2.82	Linear Vertical	1
	5					3.12		
BTPA0046062G4C1B03	2.4~2.5	50	-10	2	Omni-directional	3	Linear Vertical	1
BTPA0052116G0C1A01	2.4~2.5	50	-10		Omni-directional	5.65	Linear Vertical	1
	5.15~5.85					5.94		
	5.925~6.325					6.42		
	6.35~6.75					6.87		
	6.775~7.125					5.42		

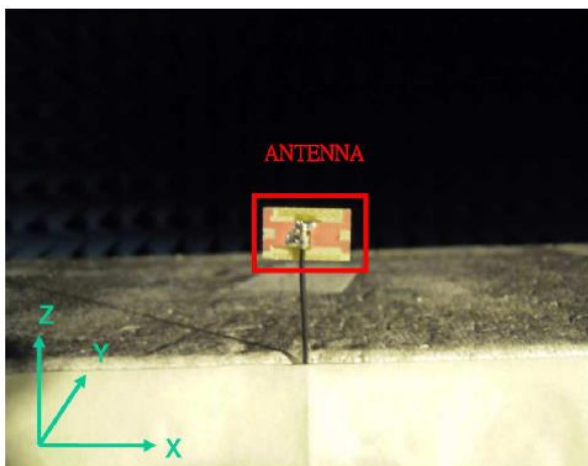
### Physical Properties

Part Number	Antenna Material(Body)		Cable	Color	Connector	Double Tape	Sponge
BTPA0017095G0C1B19	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	-	-
BTPA0010136G0C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-
BTPA0012353G8C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-
BTPA0012353G9C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-
BTPA00221425GC1A09	FR4	Black paint sneeze	RF-113	Gray	IPEX	G9000	-
BTPA0030082G4C1A04	FR4	Black paint OSP board	RF-113	Gray	IPEX Compatible	G9000	-
BTPA00420725GC1A04	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	EVA
BTPA0046062G4C1B03	FR4	Black paint sneeze	RF-113	Gray	IPEX	3M 9448	EVA
BTPA0052116G0C1A01	FR4	Black paint OSP board	RF-113	Black	IPEX Compatible	3M 9448	-

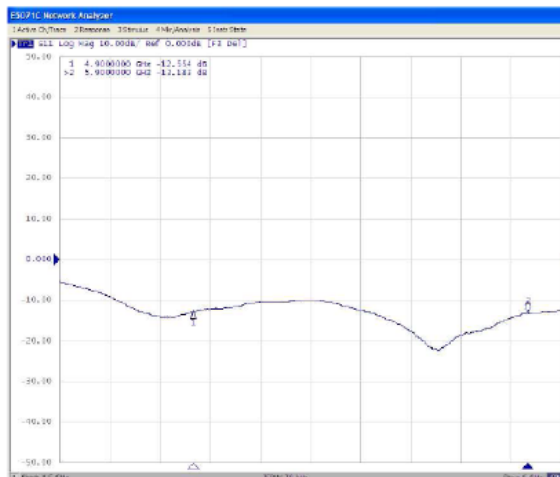
- Operating temperature range - 20°C ~ +65°C
- Storage temperature range - 30°C ~ +75°C

**BTPA0017095G0C1B19**

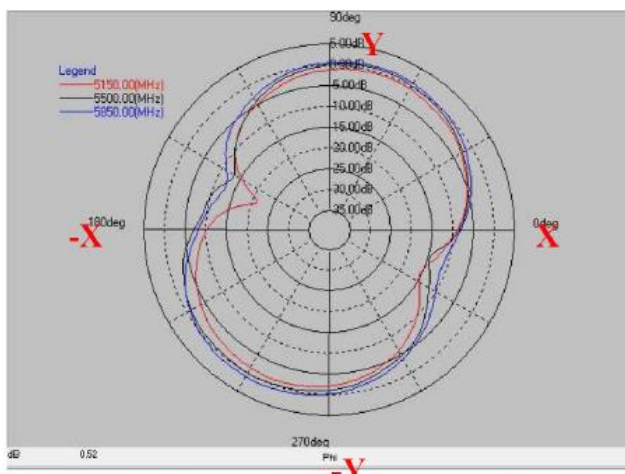
**Experimental Setup**



**Return Loss S11**

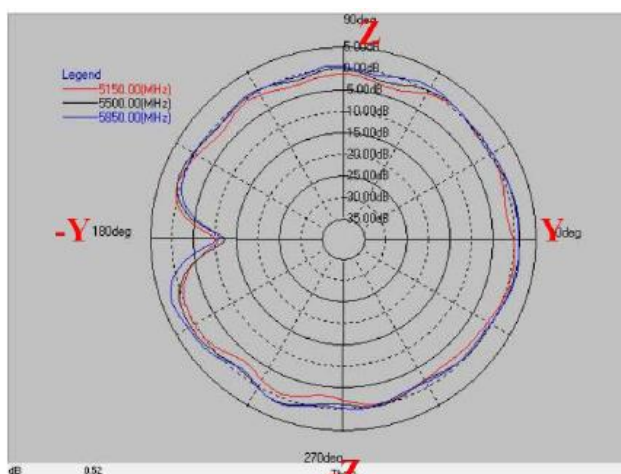


**Frequency(MHz) : 5150~5850. Pattern Field : X-Y plane**



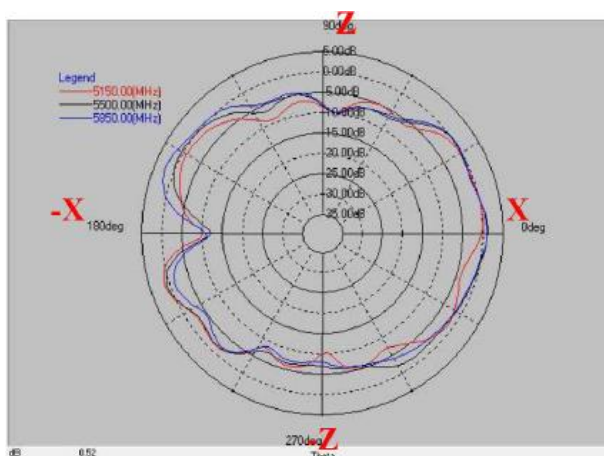
Layer	Max value	Min value	Average
5150(MHz)	-0.57 dB	-21.11 dB	-4.18 dB
5500(MHz)	0.57 Db	-14.73 dB	-2.89 dB
5850(MHz)	1.05 dB	-12.68 dB	-2.18 dB

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



Layer	Max value	Min value	Average
5150(MHz)	0.87 dB	-10.45 dB	-1.27 dB
5500(MHz)	1.33 dB	-12.56 dB	-0.30 dB
5850(MHz)	2.67 dB	-11.11 dB	0.01 dB

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

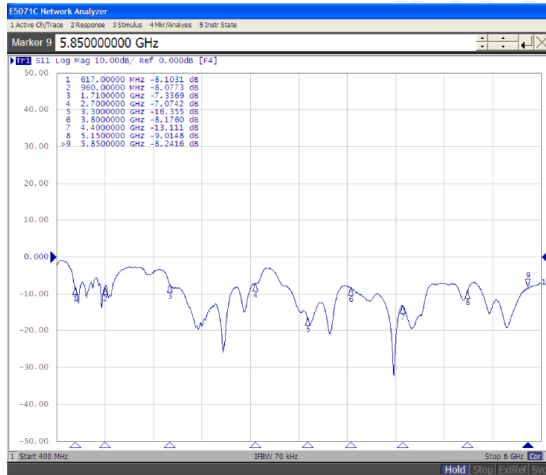


Layer	Max value	Min value	Average
5150(MHz)	1.30 dB	-10.45 dB	-3.31 dB
5500(MHz)	1.25 dB	-12.56 dB	-2.53 dB
5850(MHz)	2.25 dB	-11.19 dB	-2.43 dB

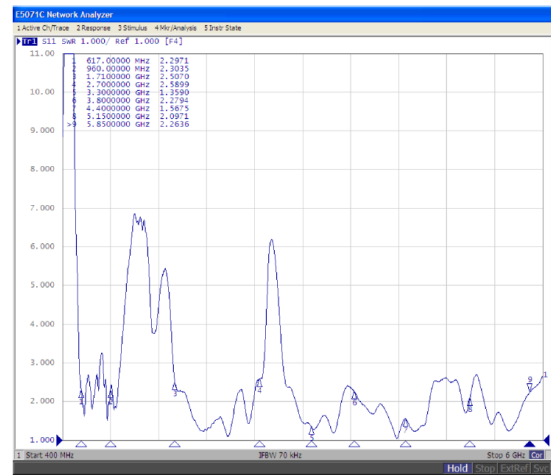
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## BTPA0010136G0C1A1

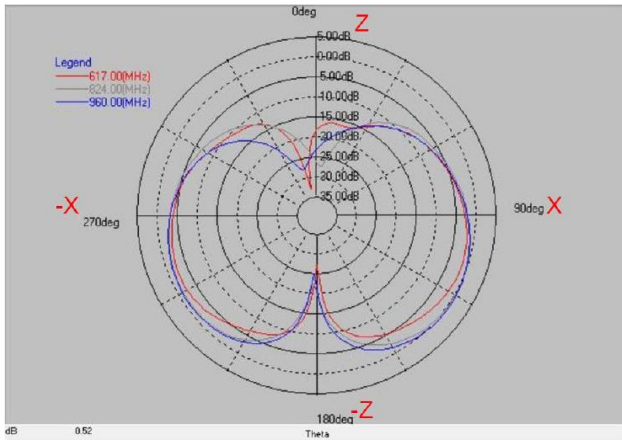
### Return Loss



### SWR

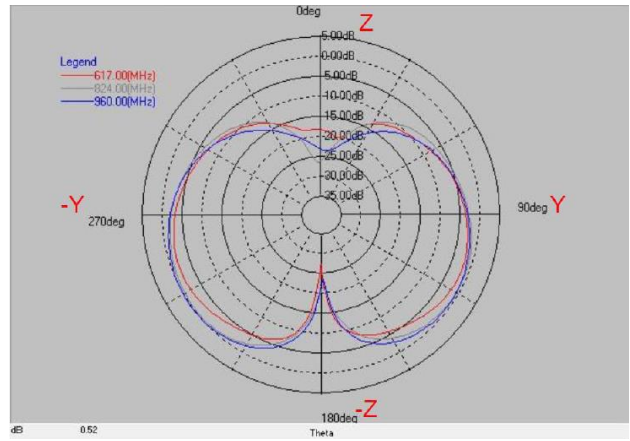


### Frequency(MHz) : 617~960. Pattern Field : Z-X plane



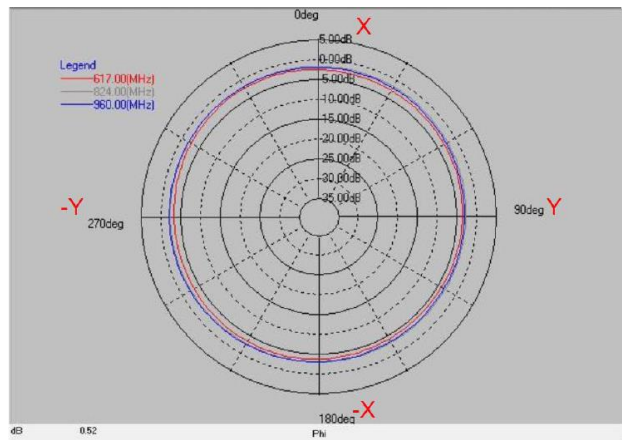
Layer	Max value	Min value	Average
617(MHz)	-1.39 dB	-33.33 dB	-5.85 dB
824(MHz)	0.22 dB	-27.68 dB	-4.37 dB
960(MHz)	0.42 dB	-28.14 dB	-4.28 dB

### Frequency(MHz) : 617~960. Pattern Field : Z-Y plane



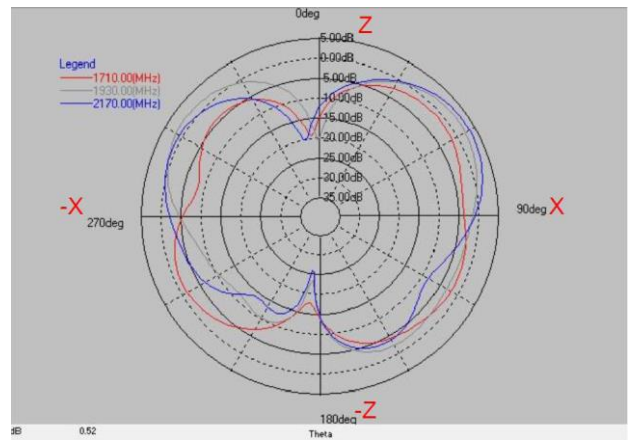
Layer	Max value	Min value	Average
617(MHz)	-1.80 dB	-27.56 dB	-5.79 dB
824(MHz)	-0.32 dB	-27.04 dB	-4.34 dB
960(MHz)	0.09 dB	-23.93 dB	-4.21 dB

### Frequency(MHz) : 617~960. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
617(MHz)	-2.37 dB	-4.29 dB	-3.32 dB
824(MHz)	-1.85 dB	-3.26 dB	-2.46 dB
960(MHz)	-1.93 dB	-3.48 dB	-2.58 dB

### Frequency(MHz) : 1710~2170. Pattern Field : Z-X plane



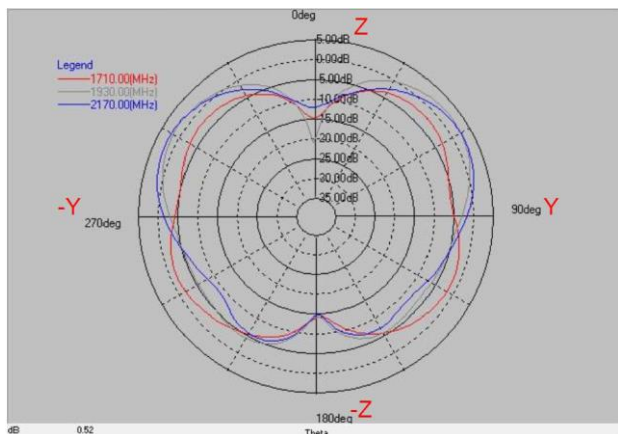
Layer	Max value	Min value	Average
1710(MHz)	-1.27 dB	-19.63 dB	-4.33 dB
1930(MHz)	2.35 dB	-23.75 dB	-2.26 dB
2170(MHz)	3.54 dB	-26.16 dB	-2.41 dB

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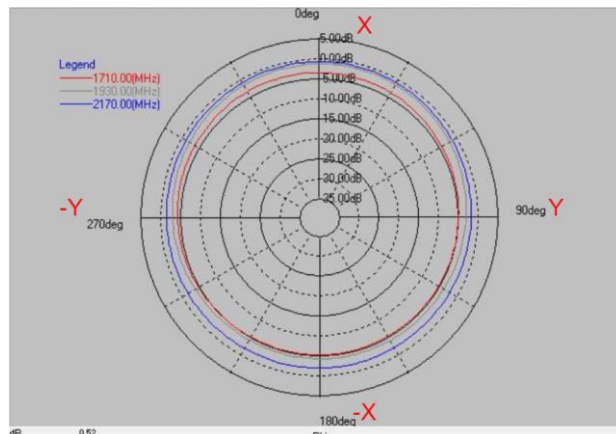
# PCB Antenna BTPA Series

Frequency(MHz) : 1710~2170. Pattern Field : Z-Y plane



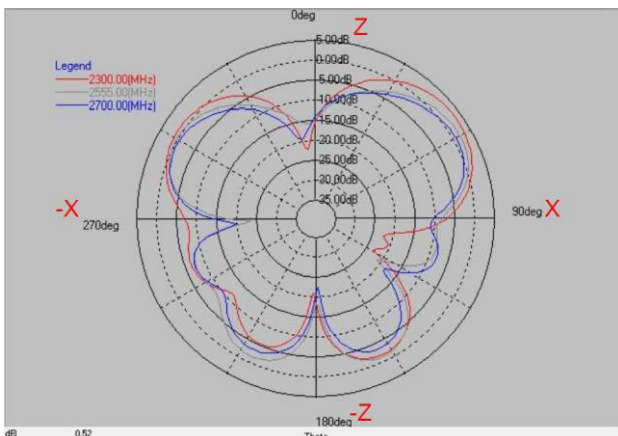
Layer	Max value	Min value	Average
1710(MHz)	-1.65 dB	-15.05 dB	-4.37 dB
1930(MHz)	2.59 dB	-21.40 dB	-2.33 dB
2170(MHz)	3.43 dB	-15.04 dB	-2.50 dB

Frequency(MHz) : 1710~2170. Pattern Field : X-Y plane



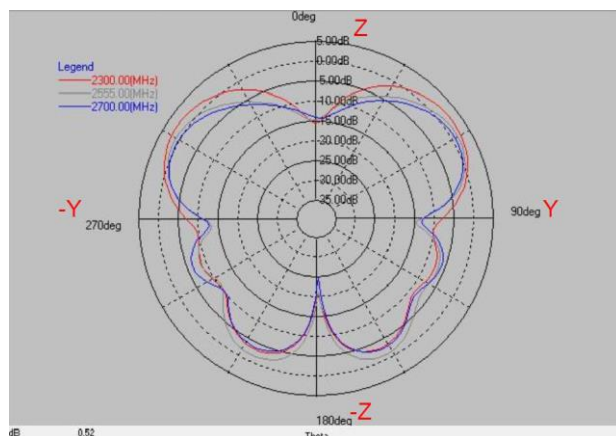
Layer	Max value	Min value	Average
1710(MHz)	-3.57 dB	-5.49 dB	-4.49 dB
1930(MHz)	-1.45 dB	-4.54 dB	-2.85 dB
2170(MHz)	-0.91 dB	-2.21 dB	-1.53 dB

Frequency(MHz) : 2300~2700. Pattern Field : Z-X plane



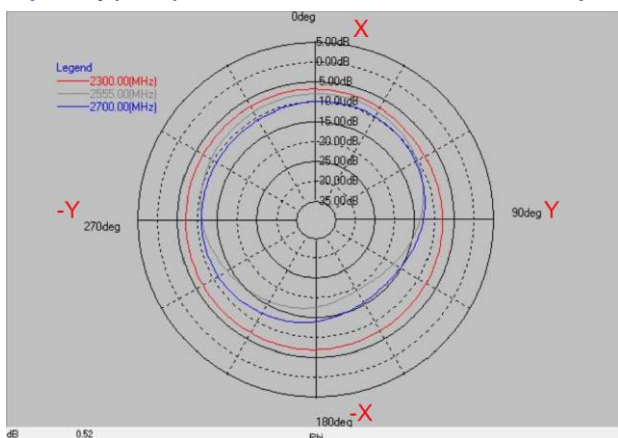
Layer	Max value	Min value	Average
2300(MHz)	3.48 dB	-23.31 dB	-2.83 dB
2555(MHz)	2.02 dB	-23.64 dB	-3.80 dB
2700(MHz)	0.79 dB	-22.71 dB	-4.96 dB

Frequency(MHz) : 2300~2700. Pattern Field : Z-Y plane



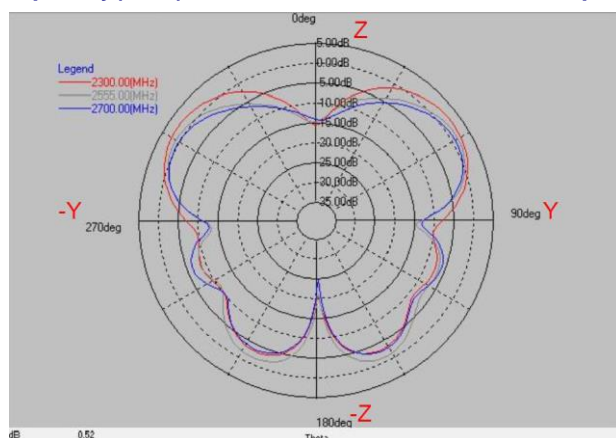
Layer	Max value	Min value	Average
2300(MHz)	2.66 dB	-20.71 dB	-2.81 dB
2555(MHz)	1.64 dB	-21.35 dB	-3.69 dB
2700(MHz)	0.80 dB	-25.15 dB	-4.63 dB

Frequency(MHz) : 2300~2700. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
2300(MHz)	-6.96 dB	-8.08 dB	-7.33 dB
2555(MHz)	-8.25 dB	-19.35 dB	-11.43 dB
2700(MHz)	-10.03 dB	-16.08 dB	-11.84 dB

Frequency(MHz) : 3300~3800. Pattern Field : Z-X plane

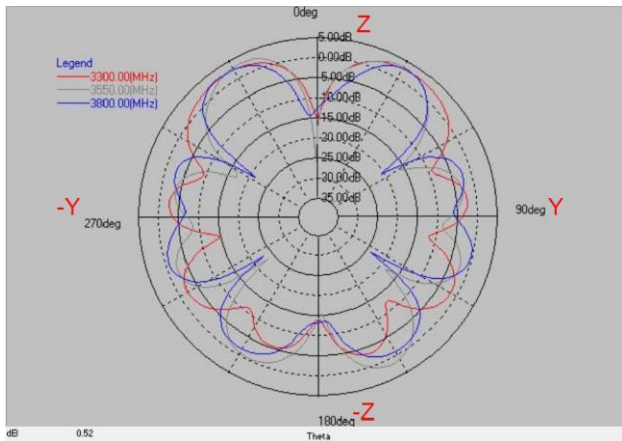


Layer	Max value	Min value	Average
3300(MHz)	3.07 dB	-20.14 dB	-2.57 dB
3550(MHz)	3.26 dB	-24.17 dB	-2.51 dB
3800(MHz)	3.43 dB	-22.01 dB	-2.77 dB

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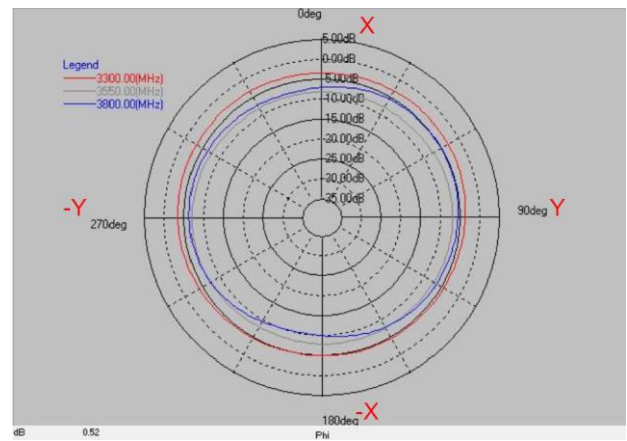
# PCB Antenna BTPA Series

Frequency(MHz) : 3300~3800. Pattern Field : Z-Y plane



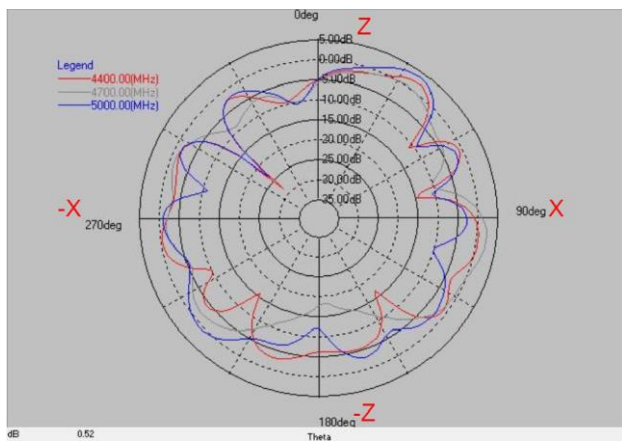
Layer	Max value	Min value	Average
3300(MHz)	2.85 dB	-15.41 dB	-2.31 dB
3550(MHz)	3.17 dB	-26.31 dB	-2.40 dB
3800(MHz)	3.01 dB	-24.18 dB	-2.64 dB

Frequency(MHz) : 3300~3800. Pattern Field : X-Y plane



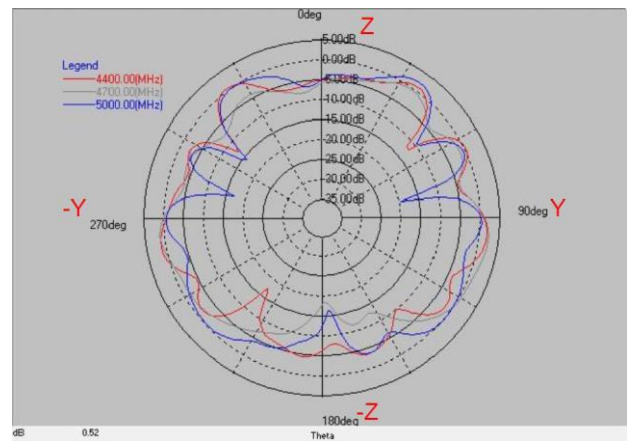
Layer	Max value	Min value	Average
3300(MHz)	-3.08 dB	-5.14 dB	-3.90 dB
3550(MHz)	-6.85 dB	-8.46 dB	-7.70 dB
3800(MHz)	-5.16 dB	-10.45 dB	-6.92 dB

Frequency(MHz) : 4400~5000. Pattern Field : Z-X plane



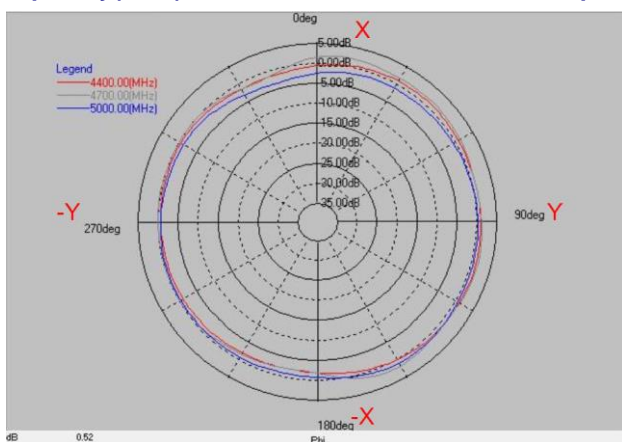
Layer	Max value	Min value	Average
4400(MHz)	2.11 dB	-28.32 dB	-3.84 dB
4700(MHz)	2.51 dB	-18.54 dB	-3.40 dB
5000(MHz)	3.59 dB	-23.84 dB	-3.01 dB

Frequency(MHz) : 4400~5000. Pattern Field : Z-Y plane



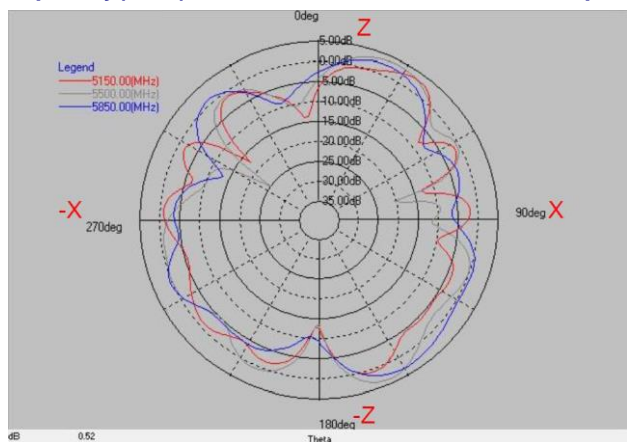
Layer	Max value	Min value	Average
4400(MHz)	1.97 dB	-17.60 dB	-2.70 dB
4700(MHz)	2.50 dB	-18.71 dB	-2.84 dB
5000(MHz)	2.13 dB	-19.53 dB	-2.61 dB

Frequency(MHz) : 4400~5000. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
4400(MHz)	1.22 dB	-2.37 dB	-0.27 dB
4700(MHz)	1.93 dB	-2.41 dB	0.43 dB
5000(MHz)	1.00 dB	-3.76 dB	-0.68 dB

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



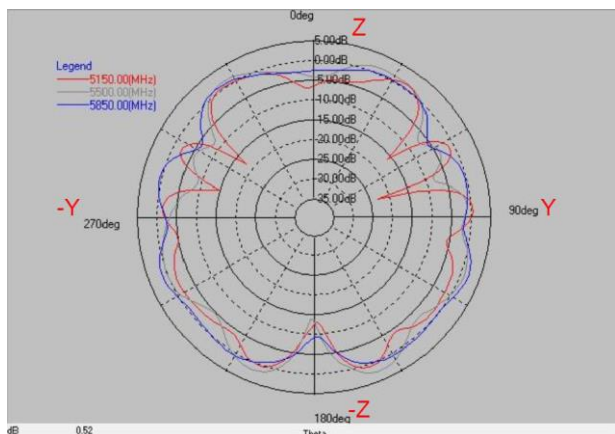
Layer	Max value	Min value	Average
5150(MHz)	3.06 dB	-17.47 dB	-2.82 dB
5500(MHz)	3.71 dB	-25.19 dB	-1.36 dB
5850(MHz)	2.94 dB	-13.40 dB	-1.46 dB

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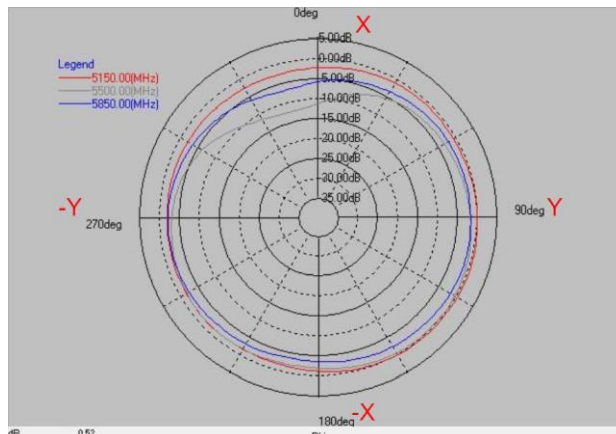
# PCB Antenna BTPA Series

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



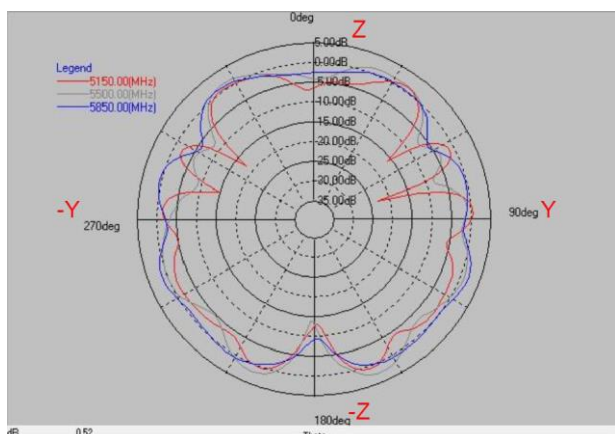
Layer	Max value	Min value	Average
5150(MHz)	1.20 dB	-23.10 dB	-2.62 dB
5500(MHz)	2.46 dB	-13.93 dB	-1.33 dB
5850MHz)	2.03 dB	-9.55 dB	-0.79 dB

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



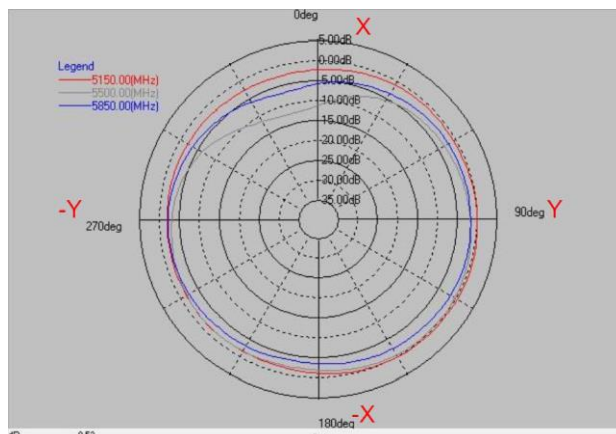
Layer	Max value	Min value	Average
5150(MHz)	0.43 dB	-2.78 dB	-1.15 dB
5500(MHz)	-0.23 dB	-12.82 dB	-3.00 dB
5850MHz)	-1.38 dB	-7.14 dB	-2.99 dB

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



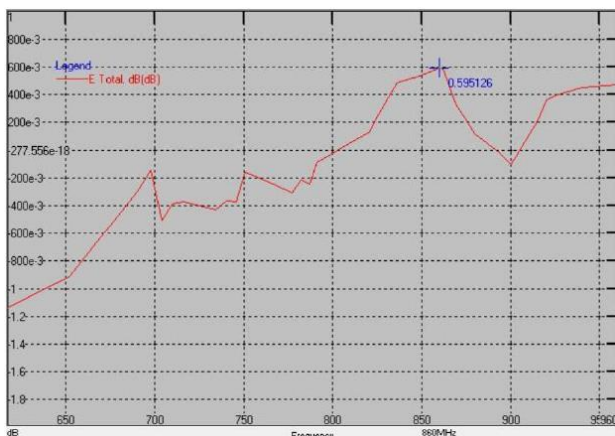
Layer	Max value	Min value	Average
5150(MHz)	1.20 dB	-23.10 dB	-2.62 dB
5500(MHz)	2.46 dB	-13.93 dB	-1.33 dB
5850MHz)	2.03 dB	-9.55 dB	-0.79 dB

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

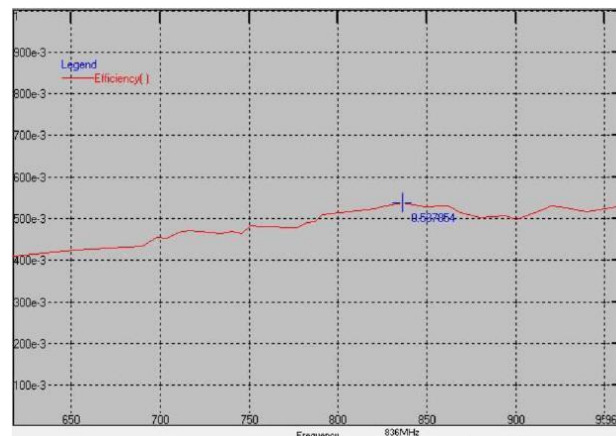


Layer	Max value	Min value	Average
5150(MHz)	0.43 dB	-2.78 dB	-1.15 dB
5500(MHz)	-0.23 dB	-12.82 dB	-3.00 dB
5850MHz)	-1.38 dB	-7.14 dB	-2.99 dB

## 3D Peak Gain



## 3D Efficiency



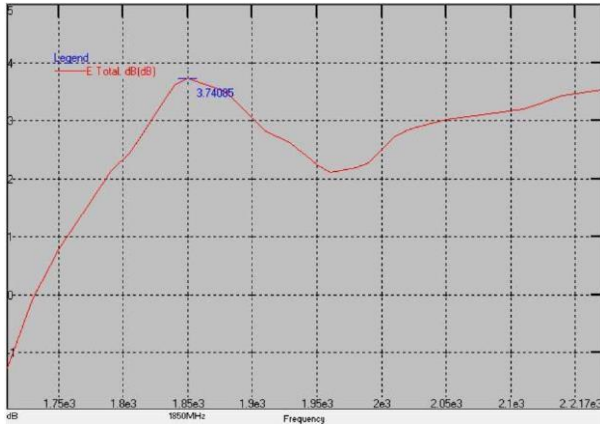
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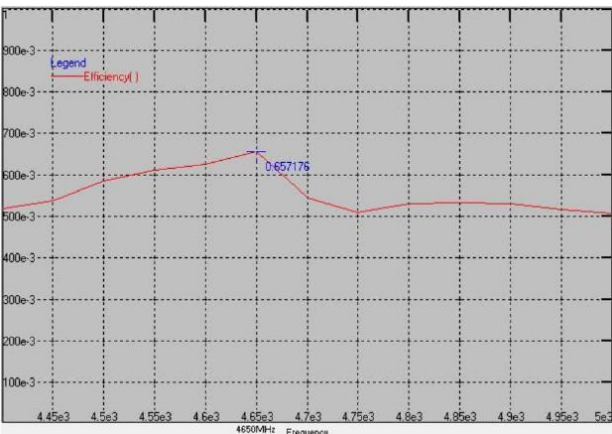
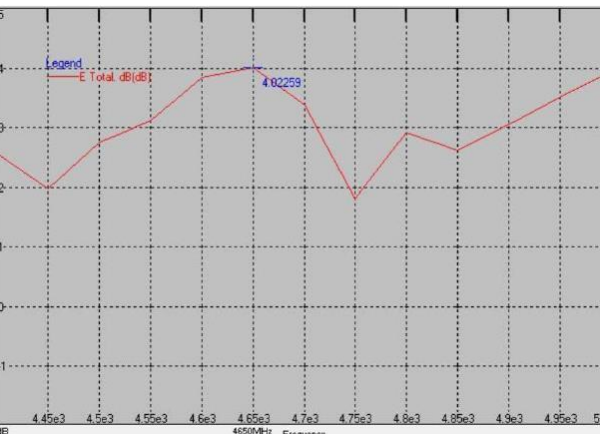
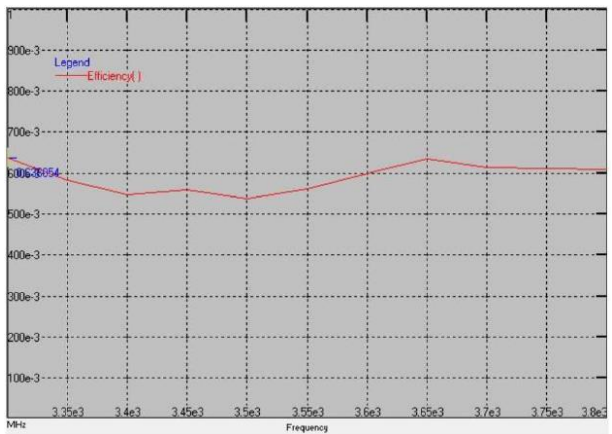
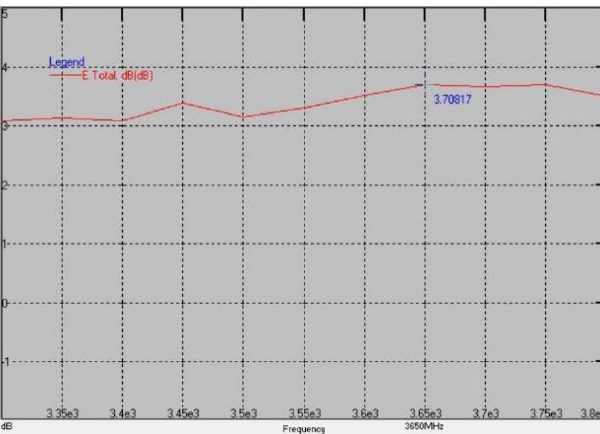
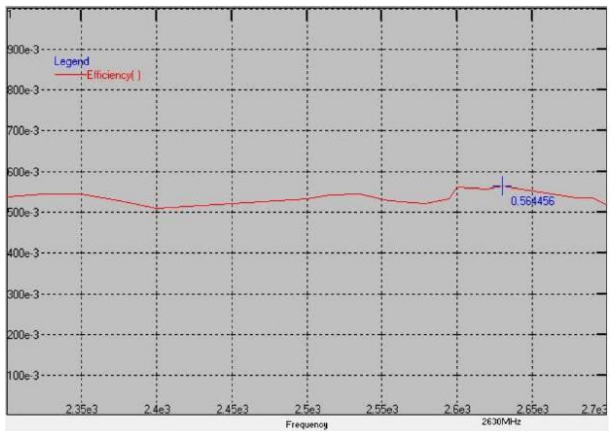
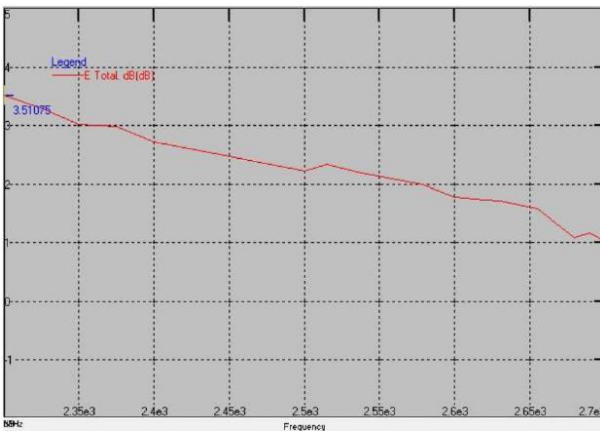
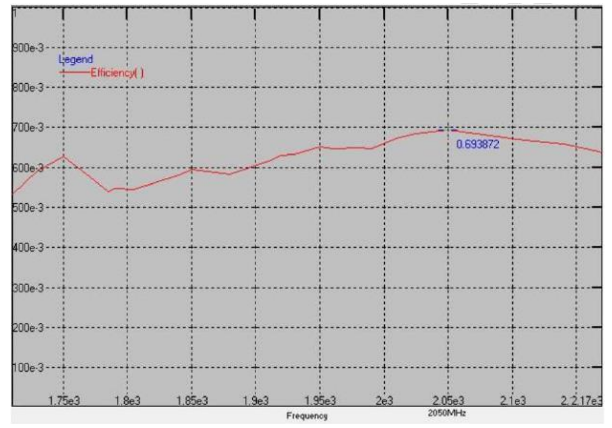


# PCB Antenna BTPA Series

## 3D Peak Gain



## 3D Efficiency

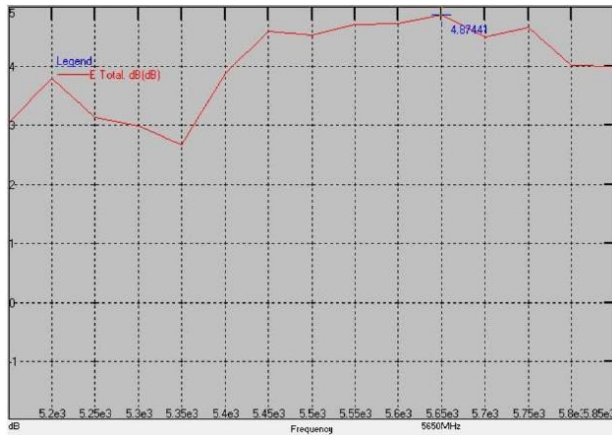


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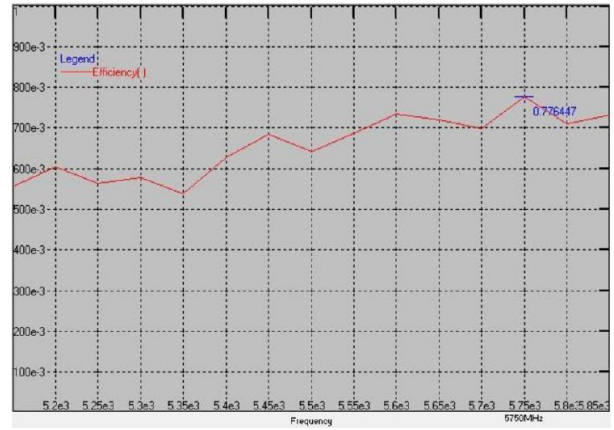


# PCB Antenna BTPA Series

## 3D Peak Gain



## 3D Efficiency



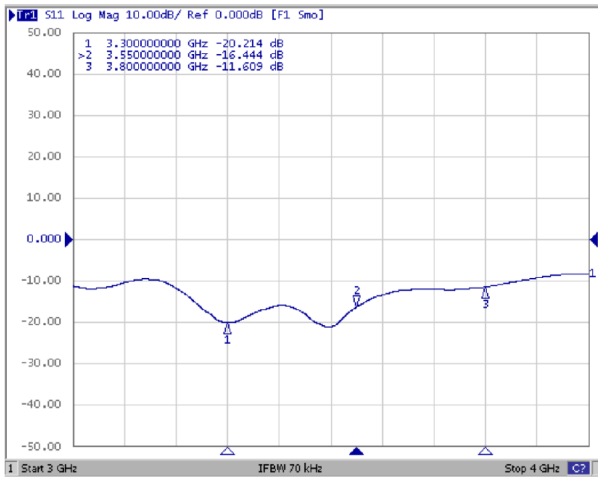
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
617	-1.14	41	2620	1.73	56
690	-0.30	43	2630	1.71	56
710	-0.39	45	2655	1.59	55
716	-0.38	47	2680	1.08	54
740	-0.36	47	2690	1.17	53
756	-0.19	47	2700	1.03	52
791	-0.09	48	3300	3.09	64
824	0.22	51	3350	3.14	58
836	0.48	53	3400	3.09	55
869	0.34	54	3450	3.39	56
880	0.12	51	3500	3.15	54
894	-0.02	50	3550	3.30	56
915	0.21	51	3600	3.52	60
920	0.36	50	3650	3.71	63
925	0.40	52	3700	3.67	61
940	0.45	53	3750	3.70	61
960	0.47	53	3800	3.50	61
1710	-1.27	53	4400	2.56	52
1750	0.79	63	4450	1.99	54
1785	1.95	54	4500	2.75	59
1805	2.44	55	4550	3.12	61
1840	3.62	58	4600	3.86	63
1880	3.50	58	4650	4.02	66
1910	2.82	62	4700	3.39	54
1930	2.60	63	4750	1.81	51
1950	2.25	65	4800	2.92	53
1980	2.20	65	4850	2.62	53
1990	2.28	65	4900	3.06	53
2010	2.73	67	4950	3.51	52
2025	2.87	69	5000	3.96	51
2050	3.03	69	5150	3.06	56
2110	3.21	67	5200	3.81	60
2140	3.43	66	5250	3.14	56
2170	3.54	64	5300	3.00	58
2300	3.51	54	5350	2.67	54
2325	3.30	55	5400	3.88	63
2350	3.03	54	5450	4.60	69
2375	2.99	53	5500	4.52	64
2400	2.72	51	5550	4.71	69
2500	2.23	53	5600	4.73	73
2515	2.34	54	5650	4.87	72
2535	2.21	54	5700	4.49	70
2555	2.12	53	5750	4.66	78
2579	1.99	52	5800	4.01	71
2595	1.83	53	5850	3.99	73

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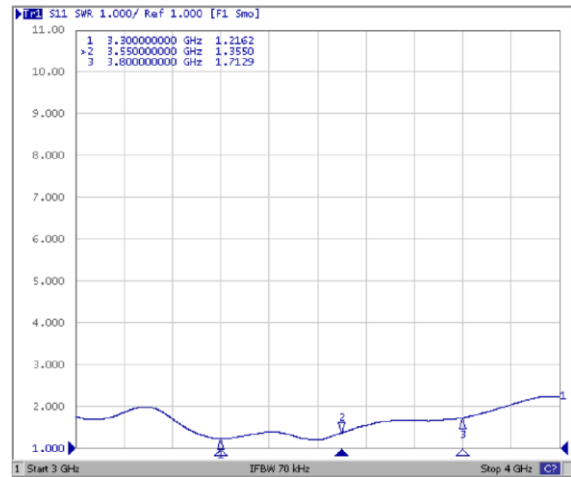


## BTPA0012353G8C1A01

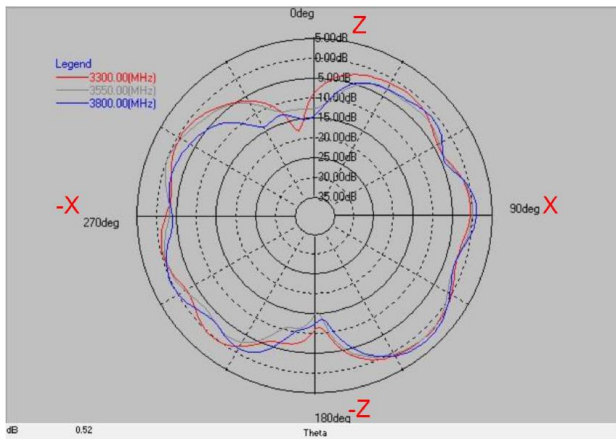
### Return Loss S11



### VSWR

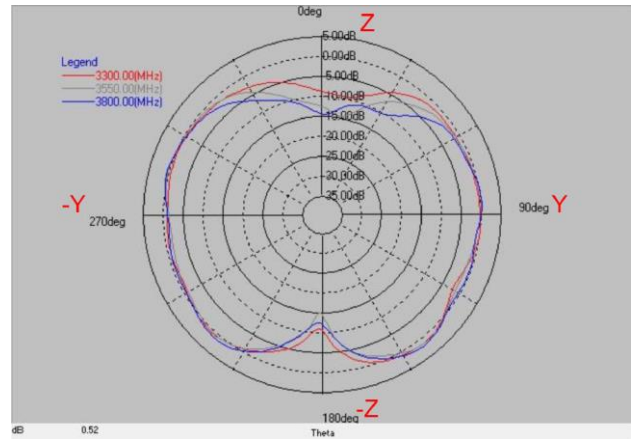


### Frequency(MHz) : 3300~3800. Pattern Field : Z-X plane



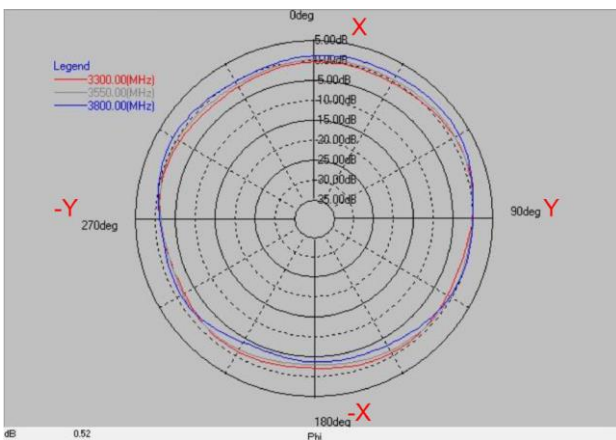
Layer	Max value	Min value	Average
3300(MHz)	1.64 dB	-18.30 dB	-2.05 dB
3550(MHz)	1.57 dB	-15.56 dB	-2.64 dB
3800(MHz)	2.53 dB	-15.60 dB	-2.45 dB

### Frequency(MHz) : 3300~3800. Pattern Field : Z-Y plane



Layer	Max value	Min value	Average
3300(MHz)	1.20 dB	-11.32 dB	-1.61 dB
3550(MHz)	1.32 dB	-15.16 dB	-1.97 dB
3800(MHz)	1.77 dB	-14.75 dB	-1.85 dB

### Frequency(MHz) : 3300~3800. Pattern Field : X-Y plane

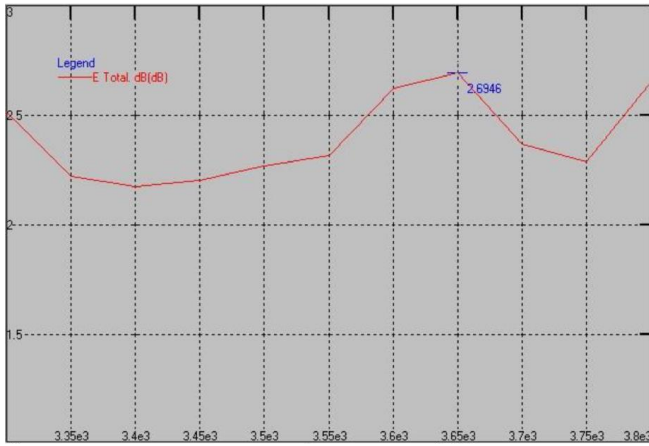


Layer	Max value	Min value	Average
3300(MHz)	1.04 dB	-2.36 dB	-0.90 dB
3550(MHz)	1.14 dB	-3.17 dB	-0.72 dB
3800(MHz)	2.33 dB	-4.43 dB	-0.27 dB

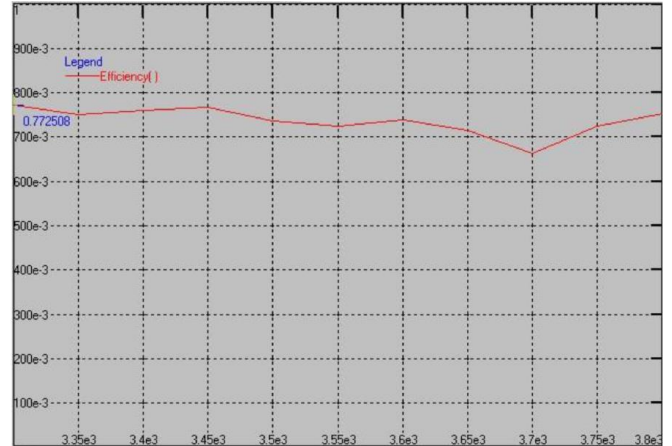
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# PCB Antenna BTPA Series

## 3D Peak Gain



## 3D Efficiency



Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
3300	2.51	77	3600	2.62	74
3350	2.22	75	3650	2.69	71
3400	2.17	76	3700	2.37	66
3450	2.20	77	3750	2.29	72
3500	2.27	74	3800	2.66	75
3550	2.31	72			

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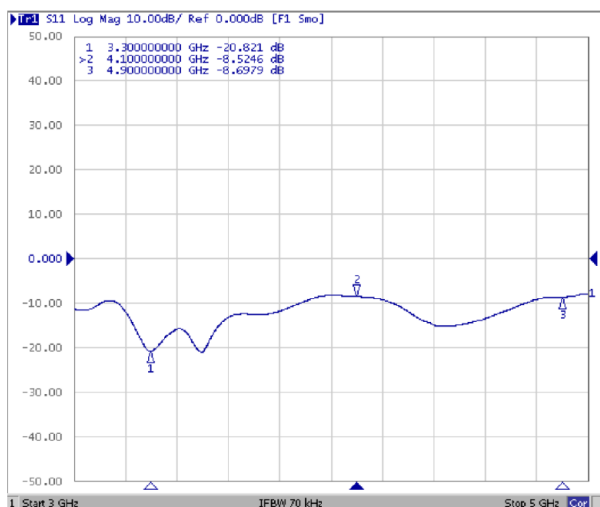
Downloaded From [Oneyac.com](http://Oneyac.com)



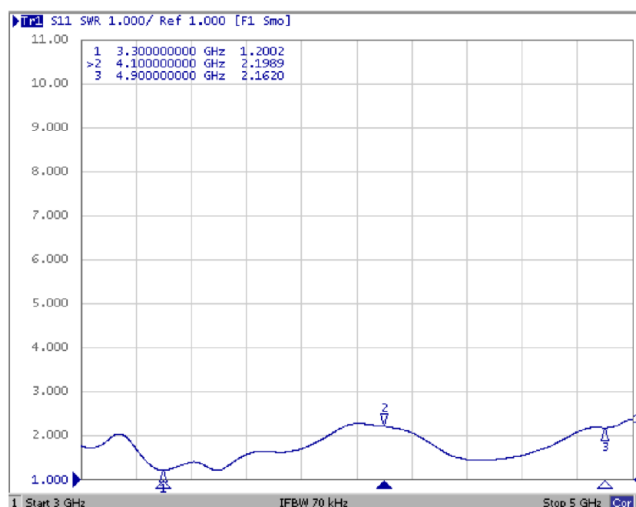


**BTPA0012353G9C1A01**

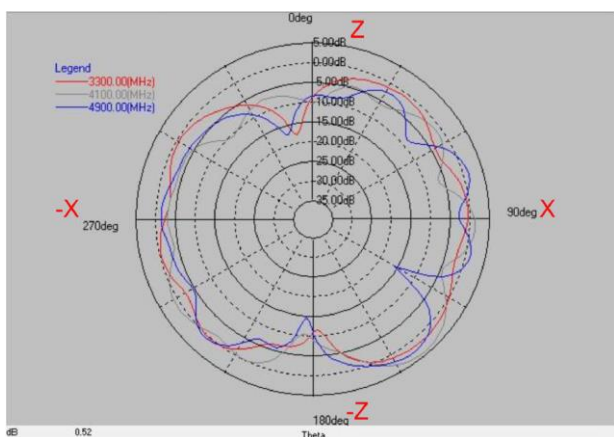
**Return Loss S11**



**VSWR**

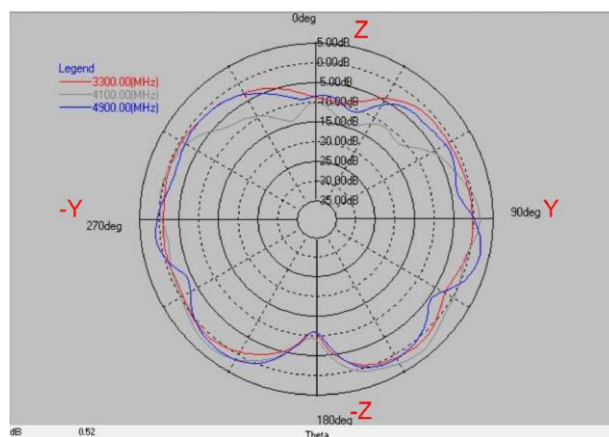


**Frequency(MHz) : 3300~4900. Pattern Field : Z-X plane**



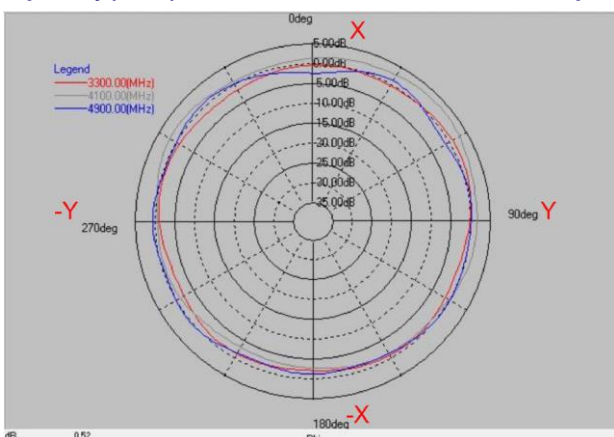
Layer	Max value	Min value	Average
3300(MHz)	1.64 dB	-18.30 dB	-2.05 dB
4100(MHz)	4.25 dB	-10.87 dB	-1.96 dB
4900(MHz)	2.55 dB	-17.75 dB	-2.61 dB

**Frequency(MHz) : 3300~4900. Pattern Field : Z-Y plane**



Layer	Max value	Min value	Average
3300(MHz)	1.20 dB	-11.32 dB	-1.61 dB
4100(MHz)	3.09 dB	-14.42 dB	-1.47 dB
4900(MHz)	2.63 dB	-11.22 dB	-1.61 dB

**Frequency(MHz) : 3300~4900. Pattern Field : X-Y plane**

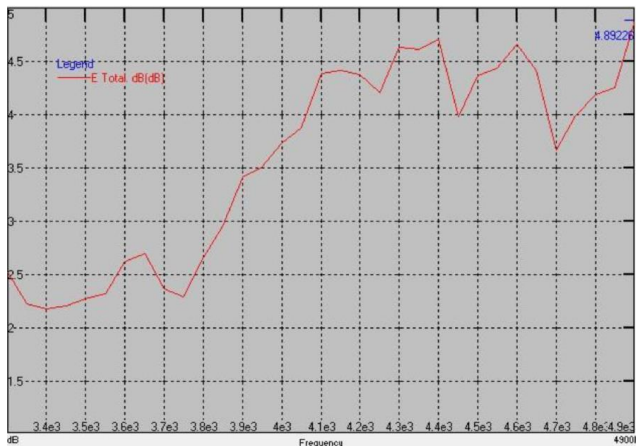


Layer	Max value	Min value	Average
3300(MHz)	1.04 dB	-2.36 dB	-0.90 dB
4100(MHz)	3.30 dB	-3.22 dB	0.54 dB
4900(MHz)	0.90 dB	-2.60 dB	-0.39 dB

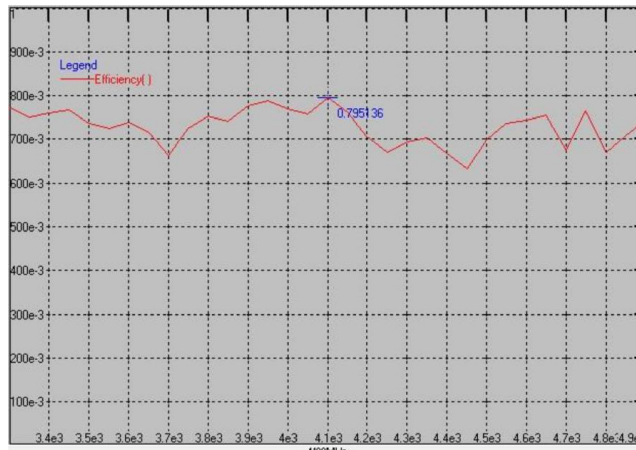
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# PCB Antenna BTPA Series

## 3D Peak Gain



## 3D Efficiency



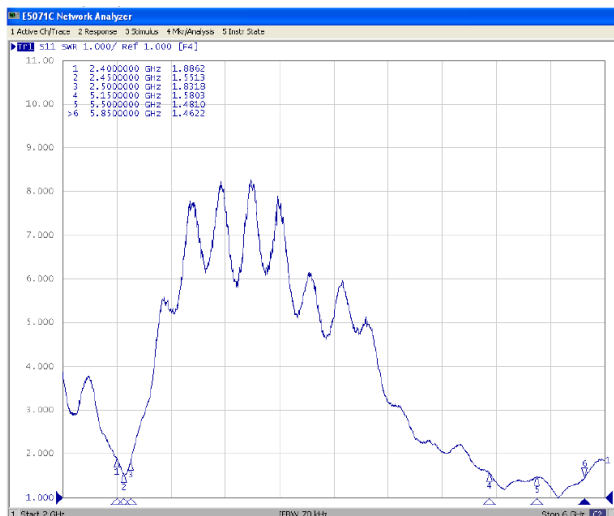
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
3300	2.51	77	4200	4.38	70
3400	2.17	76	4300	4.63	69
3500	2.27	74	4400	4.71	67
3600	2.62	74	4500	4.37	70
3700	2.37	66	4600	4.66	74
3800	2.66	75	4700	3.67	68
3900	3.42	78	4800	4.19	67
4000	3.74	77	4900	4.89	74
4100	4.39	80			

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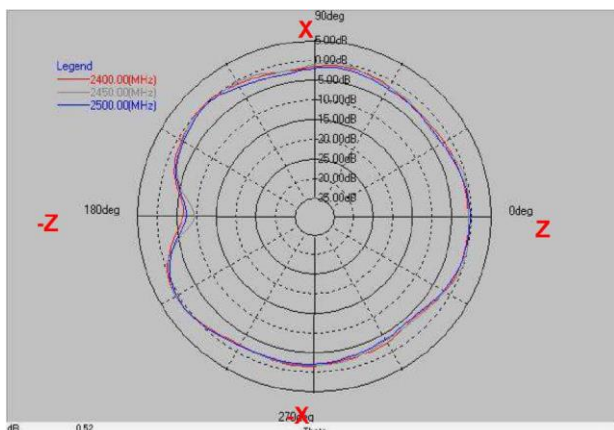


## BTPA00221425GC1A09

### VSWR S11

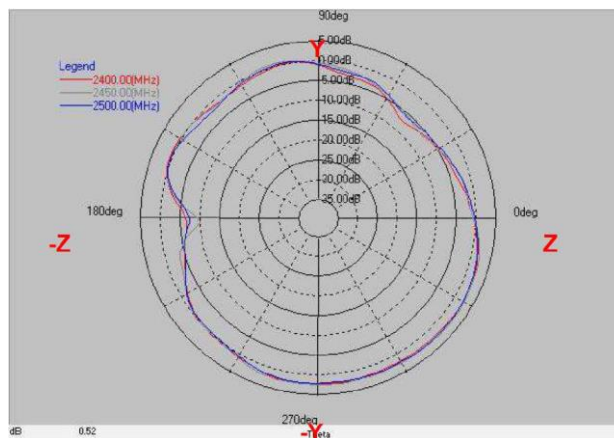


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



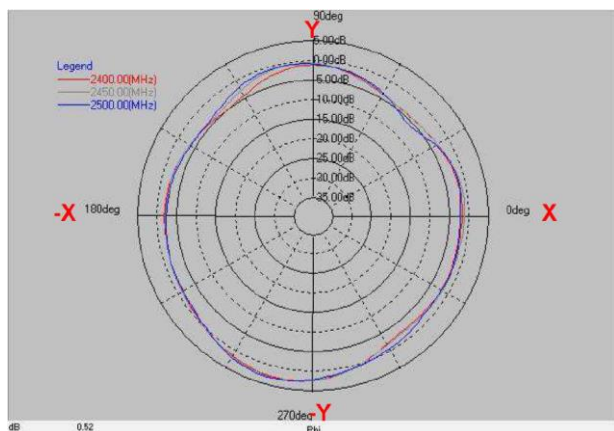
Layer	Max value	Min value	Average
2400(MHz)	0.74 dB	-6.70 dB	-1.60 dB
2450(MHz)	0.87 dB	-9.48 dB	-1.56 dB
2500(MHz)	0.53 dB	-7.47 dB	-1.94 dB

Frequency(MHz) : 2400~2500. Pattern Field : Z-Y plane



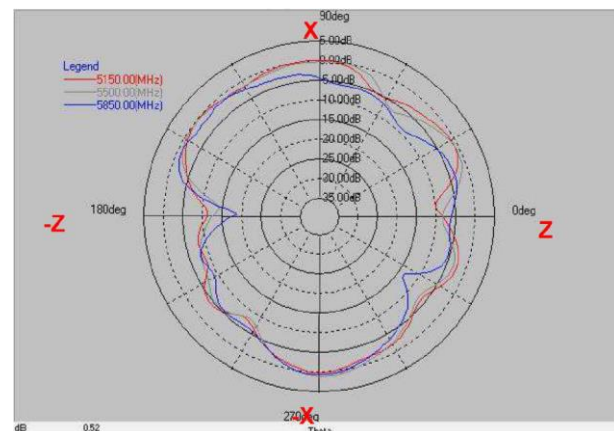
Layer	Max value	Min value	Average
2400(MHz)	2.49 dB	-7.36 dB	-0.29 dB
2450(MHz)	2.78 dB	-9.89 dB	0.00 dB
2500(MHz)	2.58 dB	-7.45 dB	-0.27 dB

Frequency(MHz) : 2400~2500. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
2400(MHz)	2.59 dB	-5.00 dB	-1.36 dB
2450(MHz)	2.75 dB	-4.41 dB	-1.11 dB
2500(MHz)	2.86 dB	-6.11 dB	-1.14 dB

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

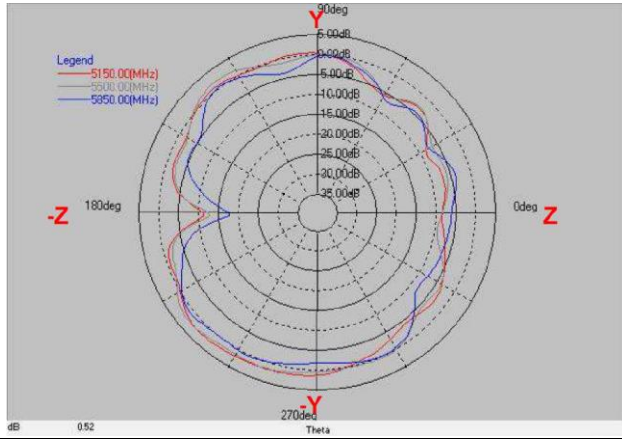


Layer	Max value	Min value	Average
5150(MHz)	0.07 dB	-11.31 dB	-2.91 dB
5500(MHz)	1.03 dB	-14.22 dB	-2.85 dB
5850(MHz)	0.55 dB	-18.79 dB	-4.20 dB

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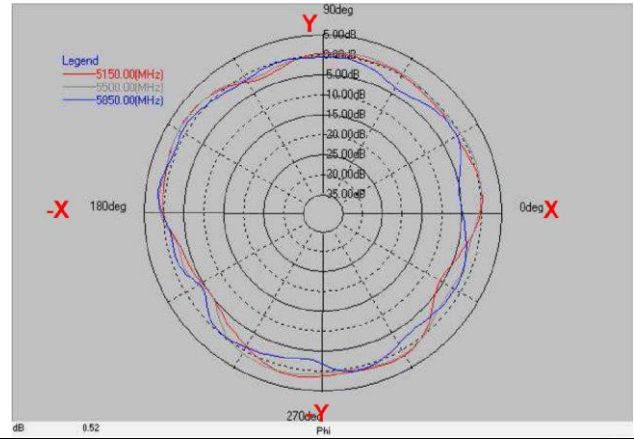
# PCB Antenna BTPA Series

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



Layer	Max value	Min value	Average
5150(MHz)	2.40 dB	-11.30 dB	-1.43 dB
5500(MHz)	2.53 dB	-12.84 dB	-1.28 dB
5850(MHz)	0.87 dB	-17.84 dB	-2.76 dB

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



Layer	Max value	Min value	Average
5150(MHz)	1.84 dB	-5.87 dB	-0.47 dB
5500(MHz)	1.80 dB	-5.26 dB	-0.09 dB
5850(MHz)	1.86 dB	-5.27 dB	-1.23 dB

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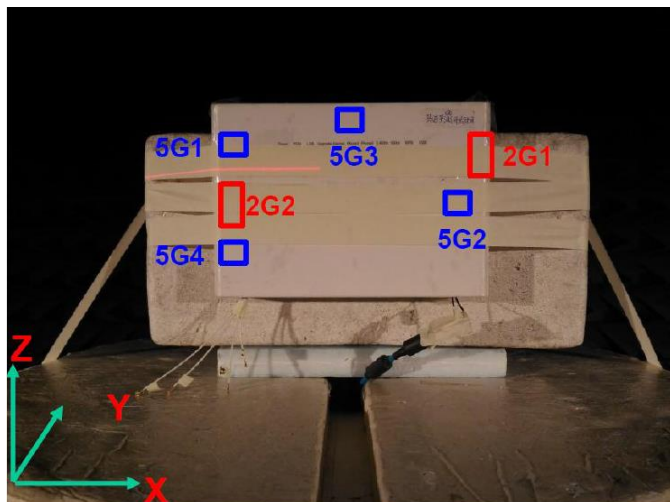
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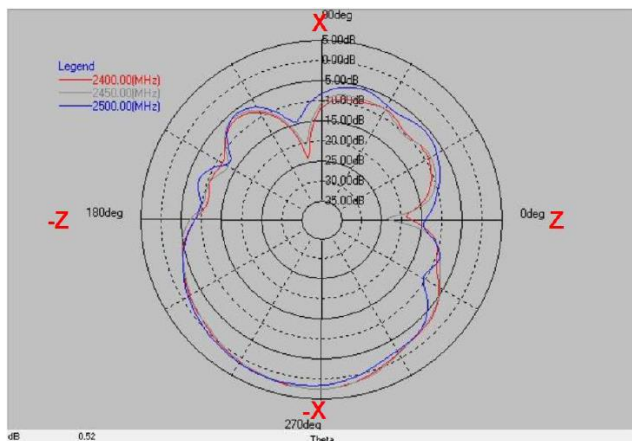


**BTPA0030082G4C1A04**

**Experimental Setup**



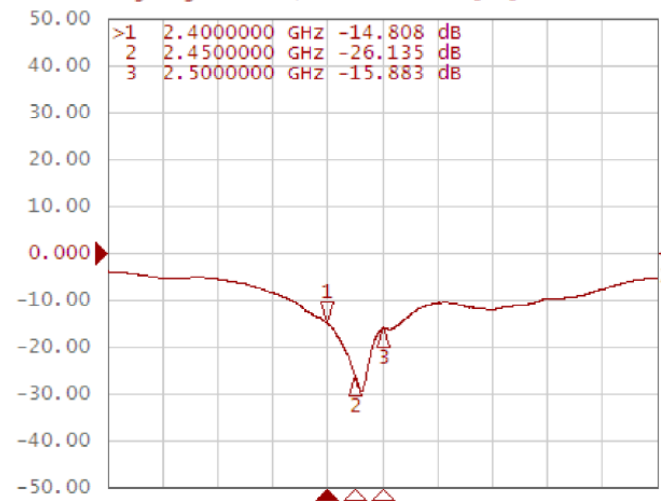
**Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane**



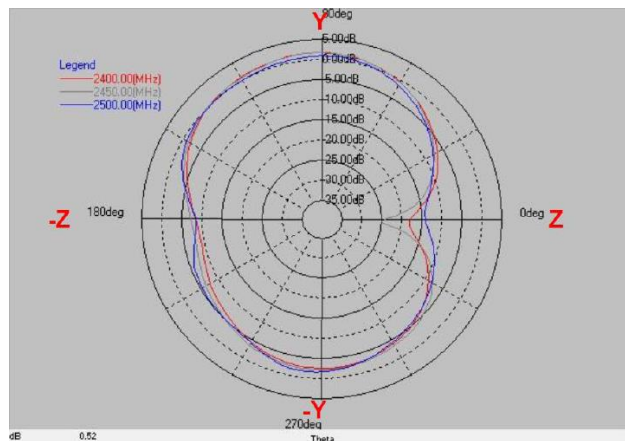
Layer	Max value	Min value	Average
2400(MHz)	2.37 dB	-24.24 dB	-3.61 dB
2450(MHz)	2.34 dB	-23.93 dB	-3.60 dB
2500(MHz)	1.81 dB	-14.70 dB	-3.64 dB

**VSWR S22**

Tr2 S22 Log Mag 10.00dB/ Ref 0.000dB [F4]

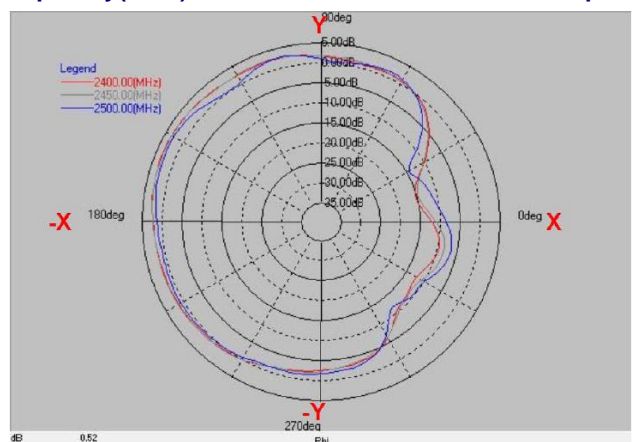


**Frequency(MHz) : 2400~2500. Pattern Field : Z-Y plane**



Layer	Max value	Min value	Average
2400(MHz)	1.51 dB	-18.08 dB	-3.04 dB
2450(MHz)	1.53 dB	-25.15 dB	-2.83 dB
2500(MHz)	0.69 dB	-14.21 dB	-3.16 dB

**Frequency(MHz) : 2400~2500. Pattern Field : X-Y plane**

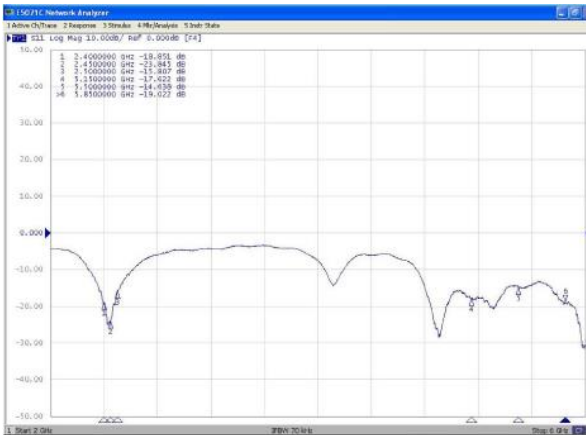


Layer	Max value	Min value	Average
2400(MHz)	3.37 dB	-15.39 dB	-0.20 dB
2450(MHz)	3.25 dB	-14.73 dB	-0.14 dB
2500(MHz)	2.75 dB	-14.49 dB	-0.72 dB

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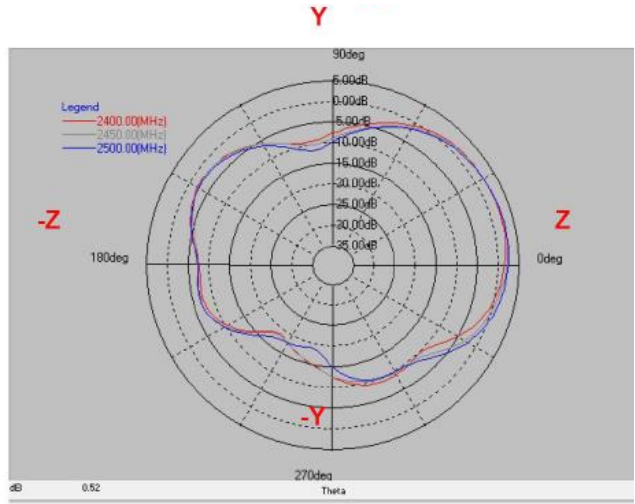
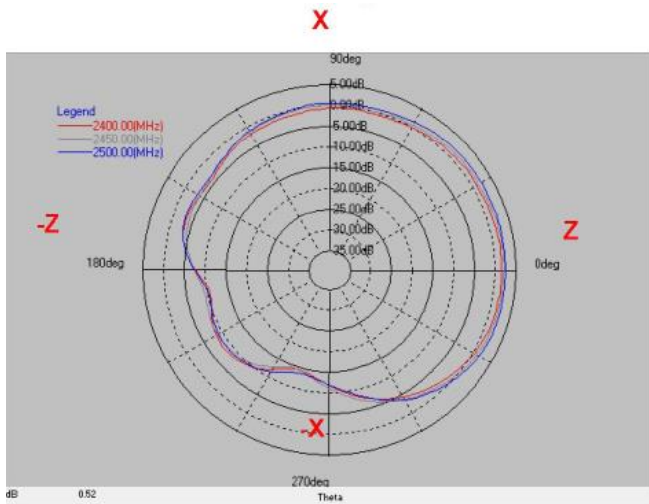
**BTPA00420725GC1A04**

**Return Loss**



**Frequency(MHz): 2400~2500. Pattern Field: Z-X plane**

**Frequency(MHz): 2400~2500. Pattern Field: Z-Y plane**

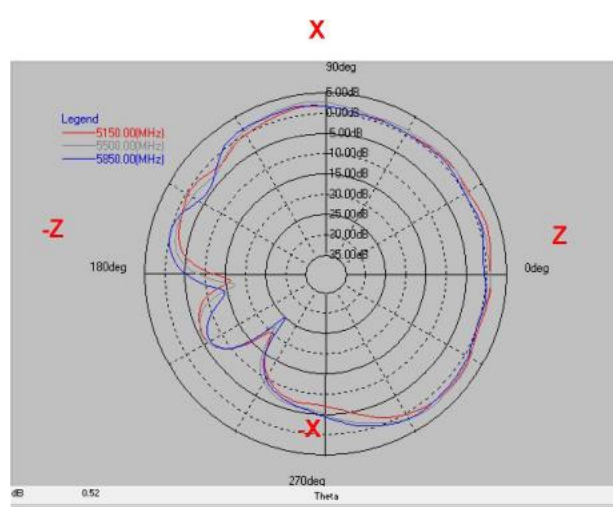
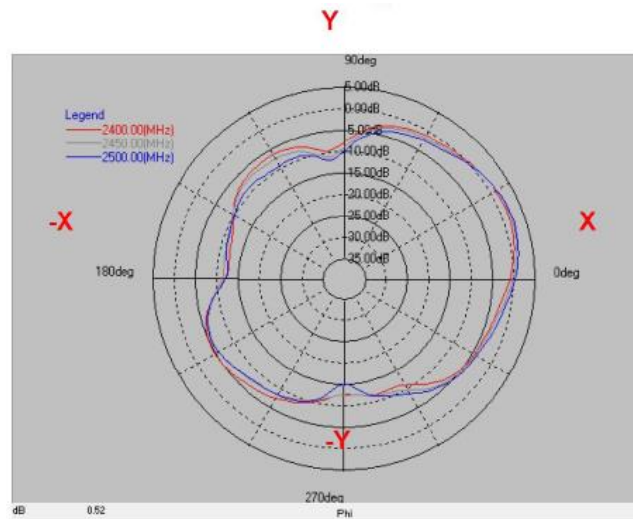


Layer	Max value	Min value	Average
2400(MHz)	1.66 dB	-14.74 dB	-2.07 dB
2450(MHz)	2.26 dB	-14.76 dB	-1.53 dB
2500(MHz)	2.58 dB	-14.02 dB	-1.02 dB

Layer	Max value	Min value	Average
2400(MHz)	2.42 dB	-18.93 dB	-3.22 dB
2450(MHz)	2.73 dB	-18.60 dB	-3.11 dB
2500(MHz)	2.82 dB	-19.18 dB	-3.03 dB

**Frequency(MHz): 2400~2500. Pattern Field: X-Y plane**

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



Layer	Max value	Min value	Average
2400(MHz)	1.64 dB	-12.87 dB	-4.24 dB
2450(MHz)	2.07 dB	-21.91 dB	-4.24 dB
2500(MHz)	2.28 dB	-15.30 dB	-4.22 dB

Layer	Max value	Min value	Average
5150(MHz)	1.95 dB	-19.79 dB	-0.87 dB
5500(MHz)	2.82 dB	-22.02 dB	-0.54 dB
5850(MHz)	1.93 dB	-25.20 dB	-0.86 dB

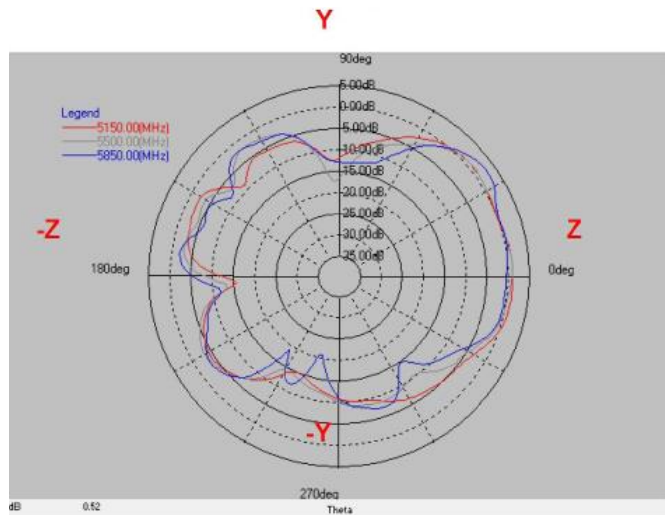
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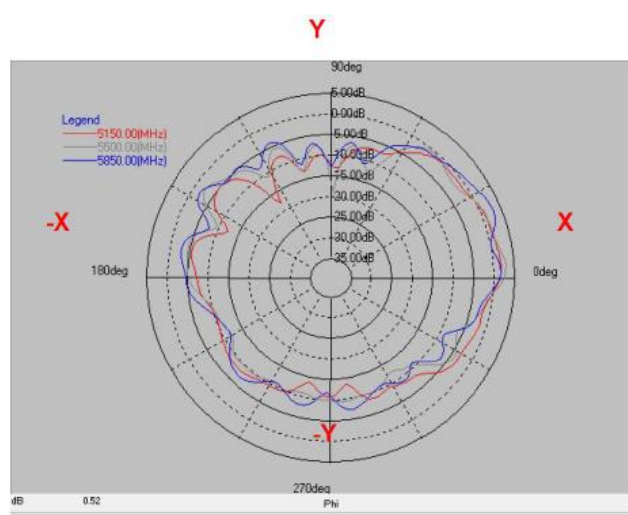
# PCB Antenna BTPA Series

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

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



Layer	Max value	Min value	Average
5150(MHz)	1.17 dB	-15.67 dB	-3.69 dB
5500(MHz)	1.07 dB	-17.54 dB	-3.84 dB
5850(MHz)	2.86 dB	-21.22 dB	-3.87 dB



Layer	Max value	Min value	Average
5150(MHz)	1.84 dB	-18.20 dB	-4.72 dB
5500(MHz)	3.11 dB	-19.19 dB	-4.54 dB
5850(MHz)	3.12 dB	-13.07 dB	-3.99 dB

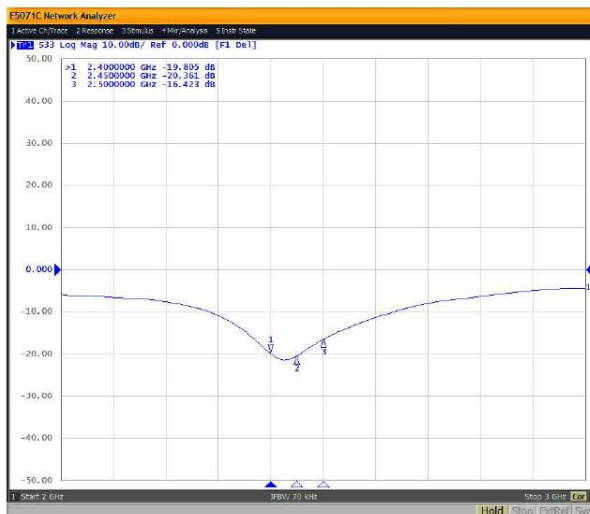
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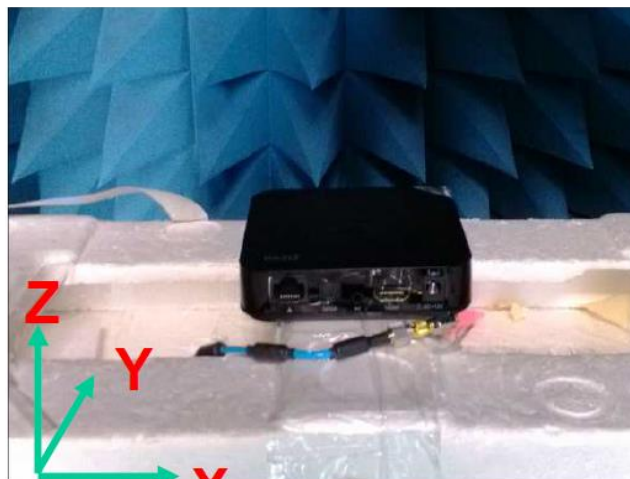


## BTPA0046062G4C1B03

### Return Loss

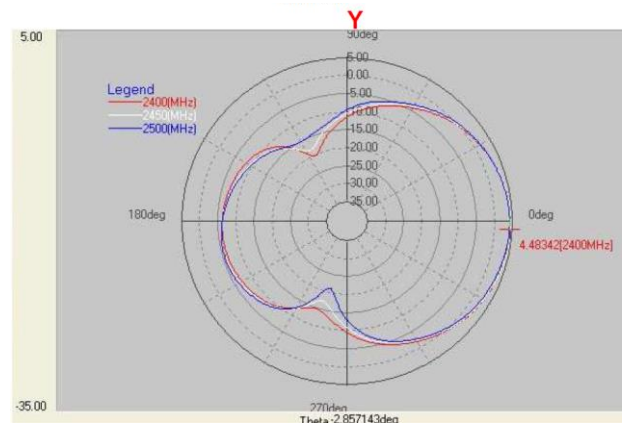
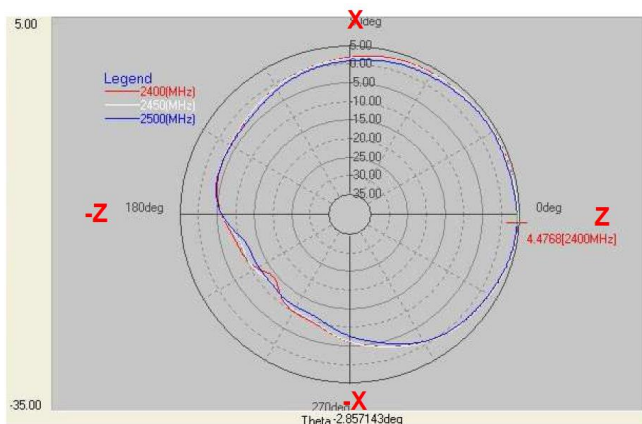


### Experimental Setup



Frequency(MHz): 2400~2500. Pattern Field: X-Z plane

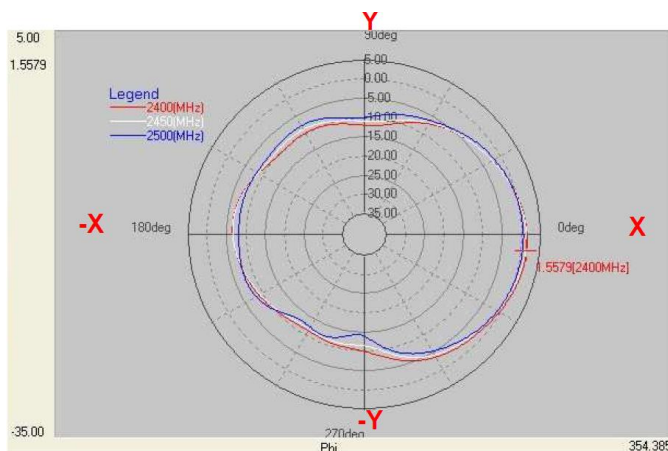
Frequency(MHz): 2400~2500. Pattern Field: Y-Z plane



Layer	Max value	Average
2400(MHz)	4.48 dB	0.47 dB
2450(MHz)	4.61 dB	0.47 dB
2500(MHz)	4.35 dB	0.03 dB

Layer	Max value	Average
2400(MHz)	4.48 dB	-1.74 dB
2450(MHz)	4.58 dB	-1.71 dB
2500(MHz)	4.28 dB	-1.89 dB

Frequency(MHz): 2400~2500. Pattern Field: X-Y plane



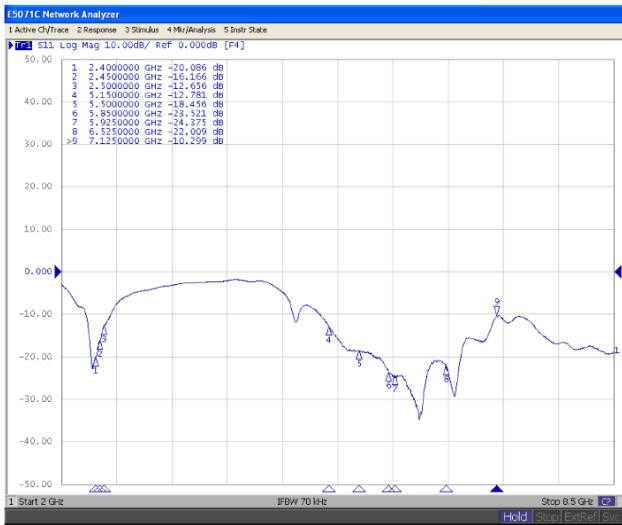
Layer	Max value	Average
2400(MHz)	1.56 dB	-4.52 dB
2450(MHz)	1.33 dB	-4.76 dB
2500(MHz)	0.58 dB	-4.93 dB

Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before

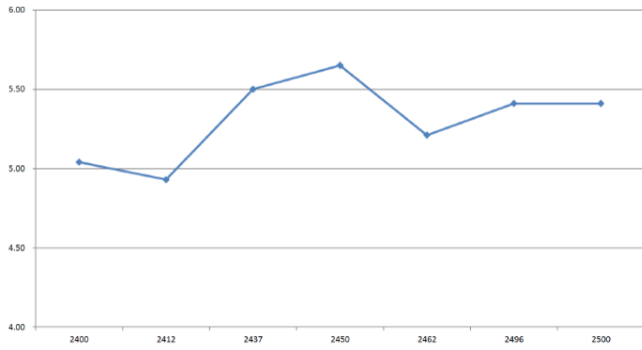


## BTPA0052116G0C1A01

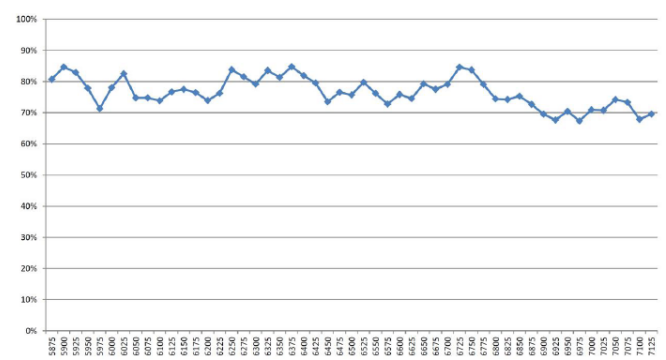
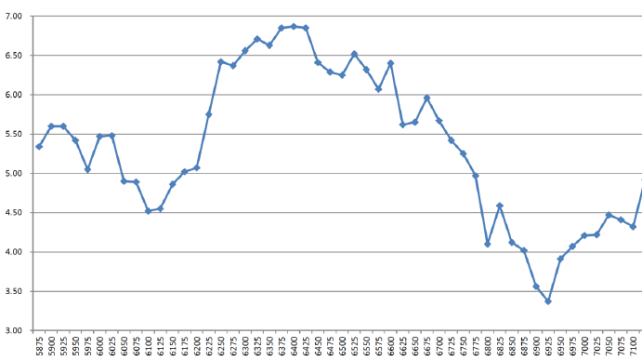
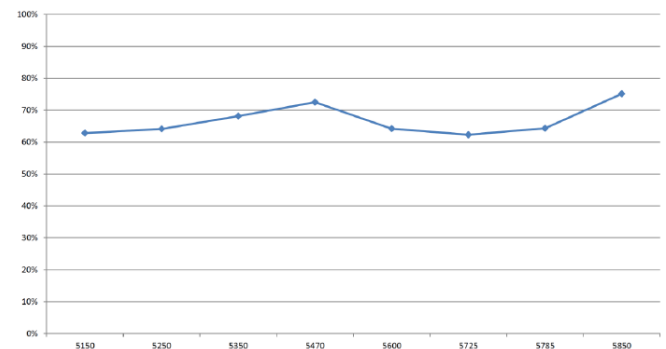
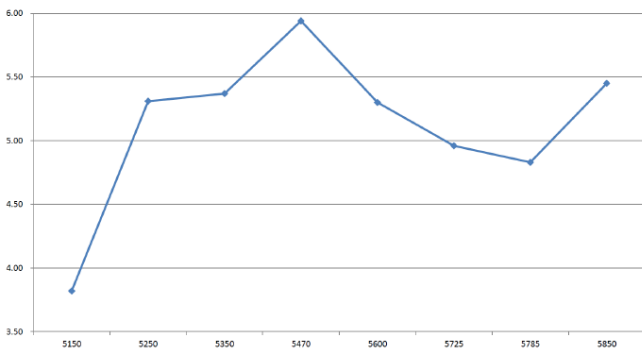
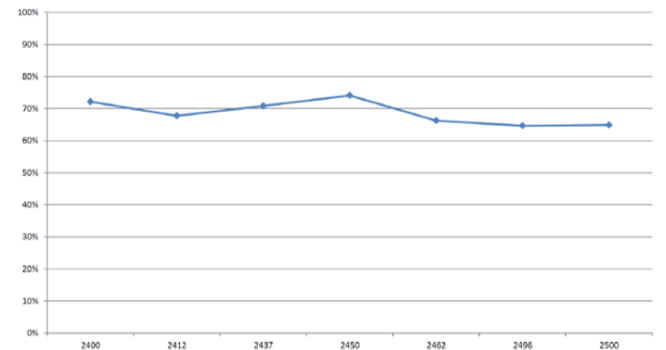
### Return Loss



### 3D Peak Gain



### 3D Efficiency



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## PCB Antenna BTPA Series

Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)	Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	5.04	72	6325	6.71	84
2412	4.93	68	6350	6.63	81
2437	5.50	71	6375	6.85	85
2450	5.65	74	6400	6.87	82
2462	5.21	66	6425	6.85	80
2496	5.41	65	6450	6.41	74
2500	5.41	65	6475	6.29	77
5150	3.82	63	6500	6.25	76
5250	5.31	64	6525	6.52	80
5350	5.37	68	6550	6.32	76
5470	5.94	73	6575	6.07	73
5600	5.30	64	6600	6.40	76
5725	4.96	62	6625	5.62	75
5785	4.83	64	6650	5.65	79
5850	5.45	75	6675	5.96	78
5875	5.34	81	6700	5.67	79
5900	5.60	85	6725	5.42	85
5925	5.60	83	6750	5.25	84
5950	5.42	78	6775	4.97	79
5975	5.05	71	6800	4.10	74
6000	5.47	78	6825	4.59	74
6025	5.48	83	6850	4.12	75
6050	4.90	75	6875	4.02	73
6075	4.89	75	6900	3.56	70
6100	4.52	74	6925	3.37	68
6125	4.55	77	6950	3.91	70
6150	4.86	78	6975	4.07	67
6175	5.02	76	7000	4.21	71
6200	5.07	74	7025	4.22	71
6225	5.75	76	7050	4.47	74
6250	6.42	84	7075	4.41	73
6275	6.37	82	7100	4.32	68
6300	6.56	79	7125	4.92	70

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单击下面可查看定价，库存，交付和生命周期等信息

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