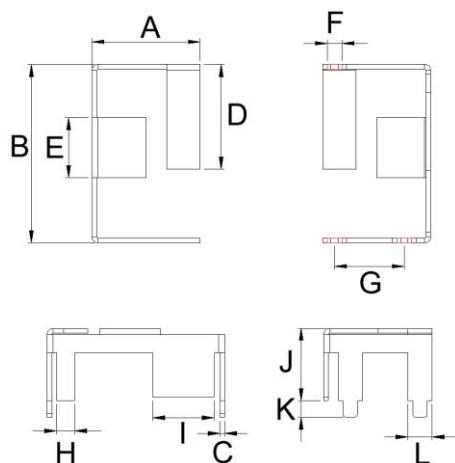




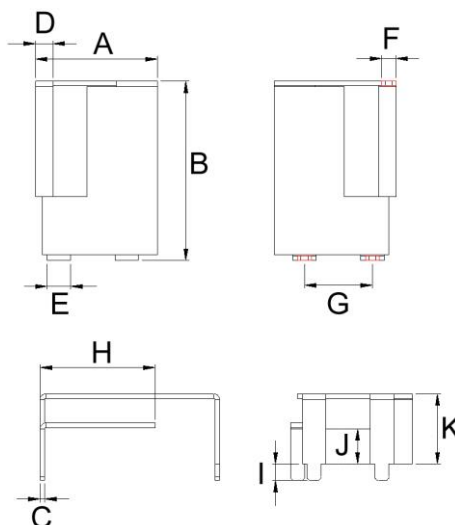
# Metal Stamping Antenna BTMA Series

## Shapes and Dimensions

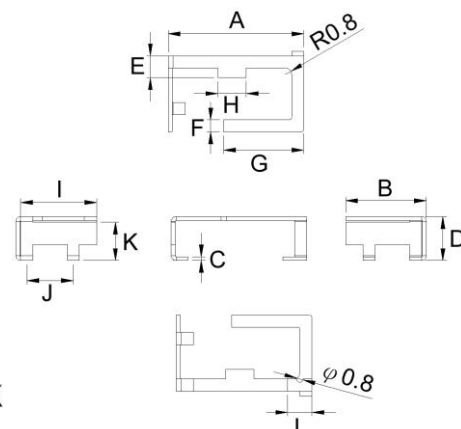
**BTMA00150925GD1A01**



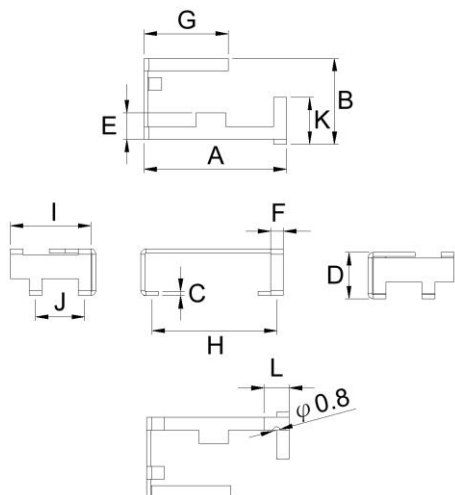
**BTMA00151025GD1A02**



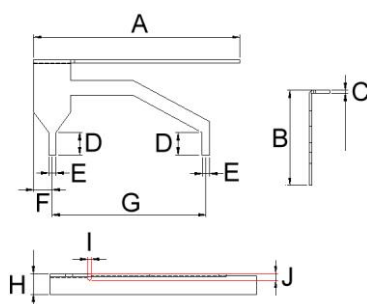
**BTMA0017102G4D1A01**



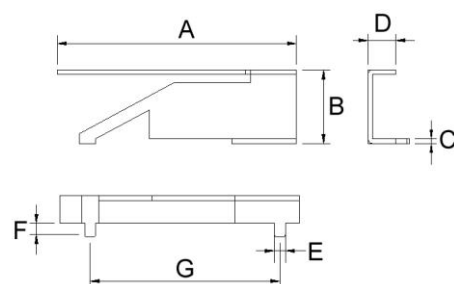
**BTMA0017102G4D1A02**



**BTMA0027152G4C1A04**



**BTMA00290825GD1A02**



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J	K	L
BTMA00150925GD1A01	9.0	14.8	0.4	8.7	5	3-1.2	5.8	1.5	5.1	6.0	1.4	2.0
BTMA00151025GD1A02	10.4	15.35	0.4	1.5	2.0	3-1.2	5.8	9.85	1.4	3.0	6.0	-
BTMA0017102G4D1A01	16.9	10.05	0.5	5.5	2.7	1.5	10.0	3.5	9.45	5.8	4.8	3.0
BTMA0017102G4D1A02	16.9	10.15	0.5	5.5	3.1	1.5	10.0	14.8	9.55	5.8	5.55	3.0
BTMA0027152G4C1A04	27.7	12.76	0.4	3.0	1.0	2.5	20.61	2.76	0.5	0.85	-	-
BTMA00290825GD1A02	26.0	8.0	0.5	3.0	1.2	1.5	20.6	-	-	-	-	-

## Metal Stamping Antenna BTMA Series

### Electrical Characteristics

Part Number	Frequency Range (GHz)	Impedance ( $\Omega$ )	Return Loss dB(Max)	Radiation	Peak Gain (dBi)	Polarization
BTMA0014082G4D1A01	2.4~2.5	50	-7	Omni-directional	0.29	Linear Vertical
BTMA0014115G0D1A01	5.15~5.85	50	-10	Omni-directional	2.90	Linear Vertical
BTMA00150925GD1A01	2.4~2.5 5.15~5.85	50	-7	Omni-directional	2.64 4.75	Linear Vertical
BTMA00151025GD1A02	2.4~2.5 5.15~5.85	50	-6	Omni-directional	2.64 4.23	Linear Vertical
BTMA0017102G4D1A01	2.4~2.5 5.15~5.85	50	-5	Omni-directional	2.88 3.17	Linear Vertical
BTMA0017102G4D1A02	2.4~2.5 5.15~5.85	50	-4	Omni-directional	4.14 3.43	Linear Vertical
BTMA0027152G4C1A04	2.4~2.5	50	-10	Directional	3.19	Linear Vertical
BTMA00290825GD1A02	2.4~2.5 5.15~5.85	50	-10	Omni-directional	2.71 3.02	Linear Vertical

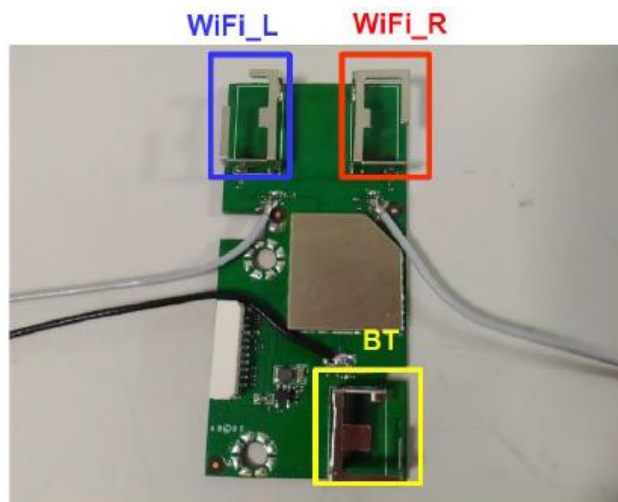
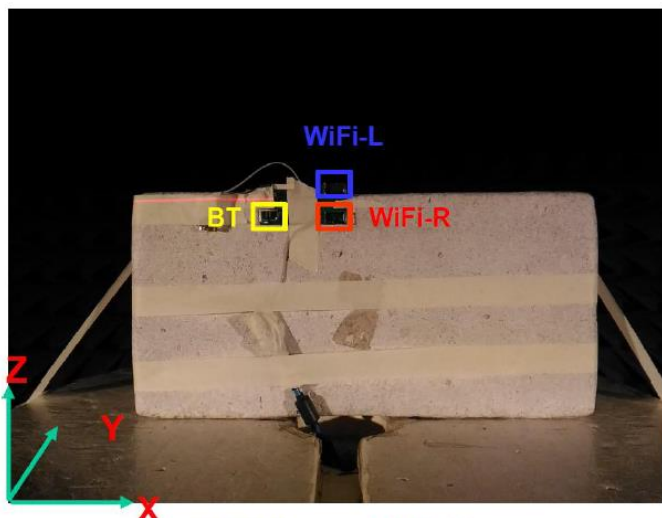
### Physical Properties

Part Number	Antenna Material	Operating temperature range	Storage temperature range
BTMA0014082G4D1A01	SUS430 (First nickel plating)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA0014115G0D1A01	SUS430 (First nickel plating)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA00150925GD1A01	SUS430 (Nickel plating-Sn)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA00151025GD1A02	SUS430 (Nickel plating-Sn)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA0017102G4D1A01	SUS430 (First nickel plating)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA0017102G4D1A02	SUS430 (First nickel plating)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA0027152G4C1A04	SUS430 (First nickel plating)	- 20°C ~ +65°C	- 30°C ~ +75°C
BTMA00290825GD1A02	SUS430 (First nickel plating)	- 20°C ~ +65°C	- 30°C ~ +75°C

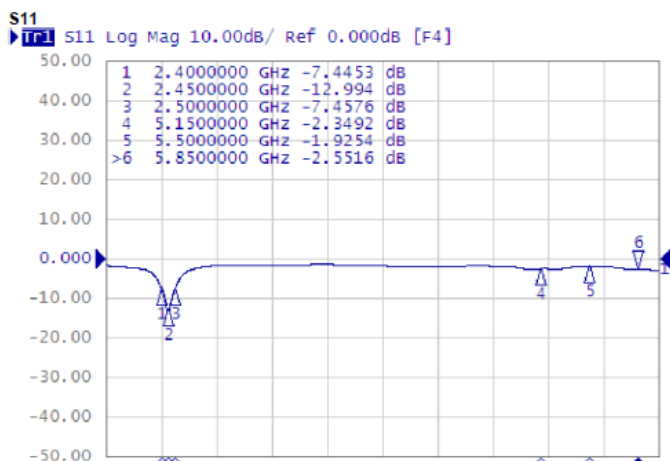
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

## BTMA0014082G4D1A01

### Experimental Setup

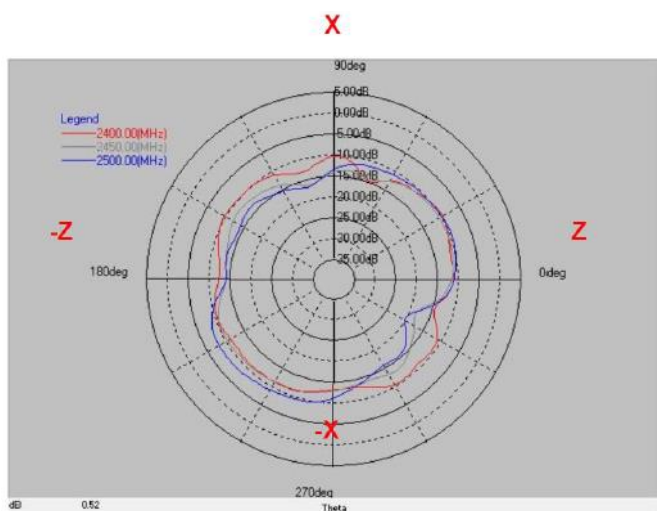


### Return Loss S11

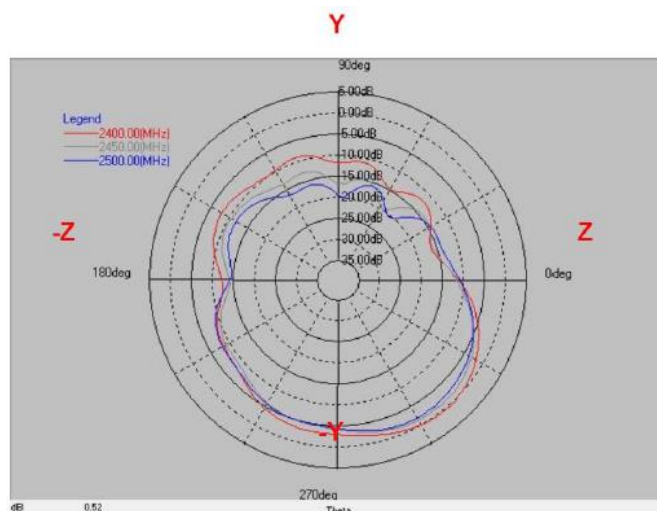


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane

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



Layer	Max value	Min value	Average
2400(MHz)	-9.68 dB	-15.14 dB	-11.46 dB
2450(MHz)	-10.37 dB	-18.50 dB	-12.67 dB
2500(MHz)	-8.17 dB	-20.24 dB	-11.79 dB

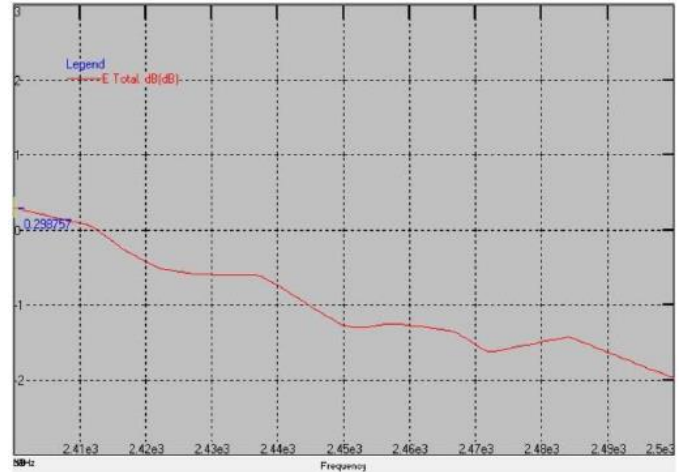
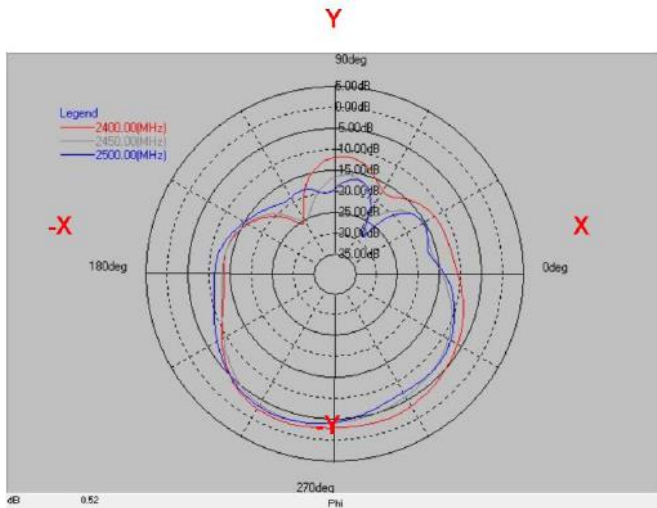


Layer	Max value	Min value	Average
2400(MHz)	0.30 dB	-16.47 dB	-5.83 dB
2450(MHz)	-1.28 dB	-20.09 dB	-7.28 dB
2500(MHz)	-1.98 dB	-20.67 dB	-7.65 dB

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# Metal Stamping Antenna BTMA Series

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



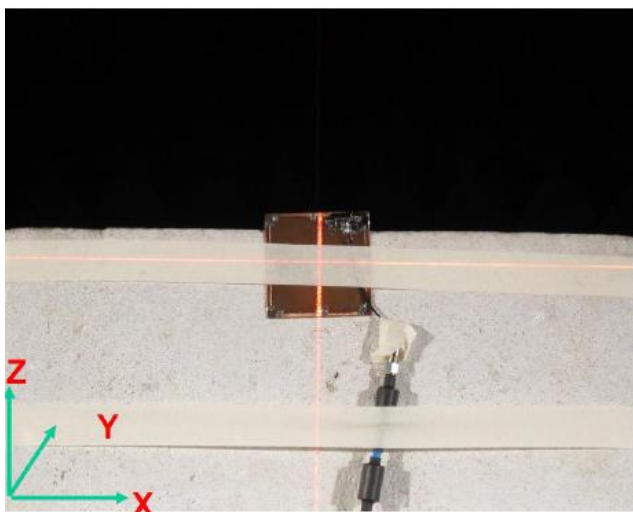
Peak Gain : Max 0.29 dBi

Layer	Max value	Min value	Average
2400(MHz)	-2.52 dB	-25.81 dB	-7.49 dB
2450(MHz)	-3.56 dB	-25.65 dB	-9.21 dB
2500(MHz)	-3.27 dB	-28.86 dB	-8.96 dB

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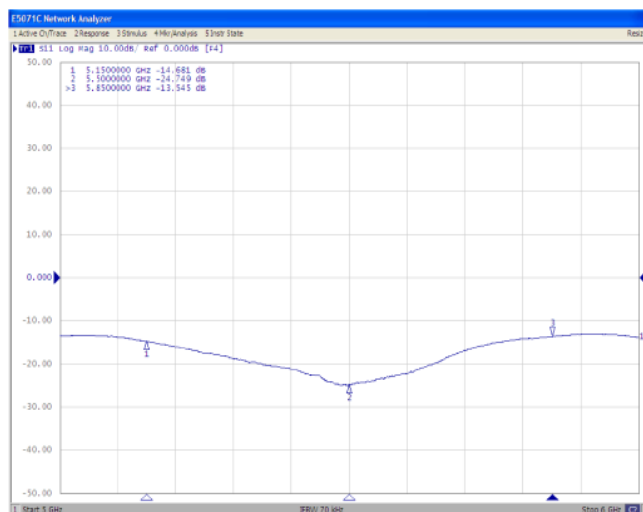
## BTMA0014115G0D1A01

### Experimental Setup

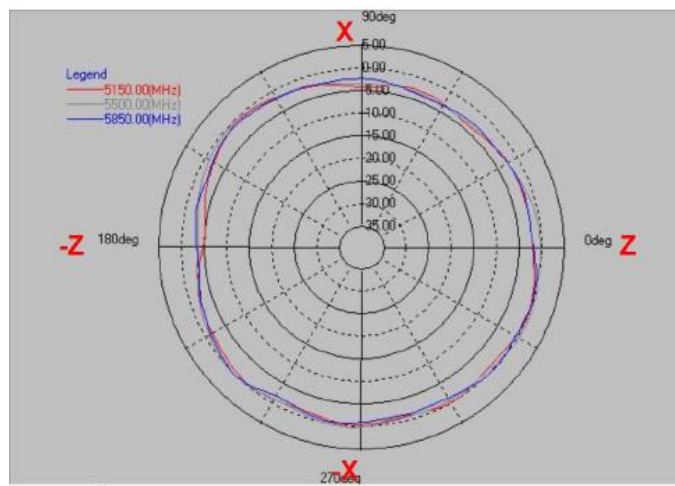


Frequency(MHz) : 5150~5850. Pattern Field : Z-X plane

### Return Loss S11

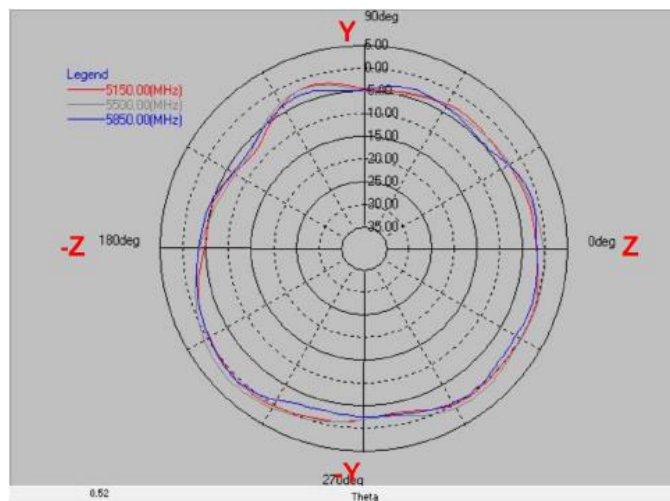


Frequency(MHz) : 5150~5850. Pattern Field : Z-Y plane



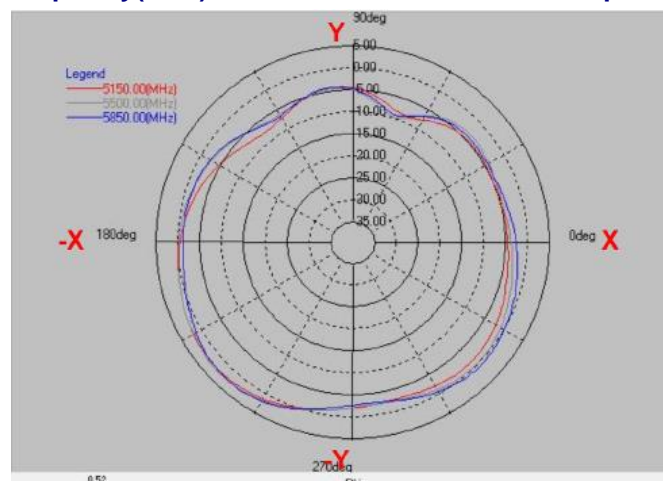
Layer	Max value	Min value	Average
5150(MHz)	-0.05 dB	-5.06 dB	-1.86 dB
5500(MHz)	0.51 dB	-3.81 dB	-1.34 dB
5850(MHz)	0.03 dB	-3.84 dB	-1.72 dB

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

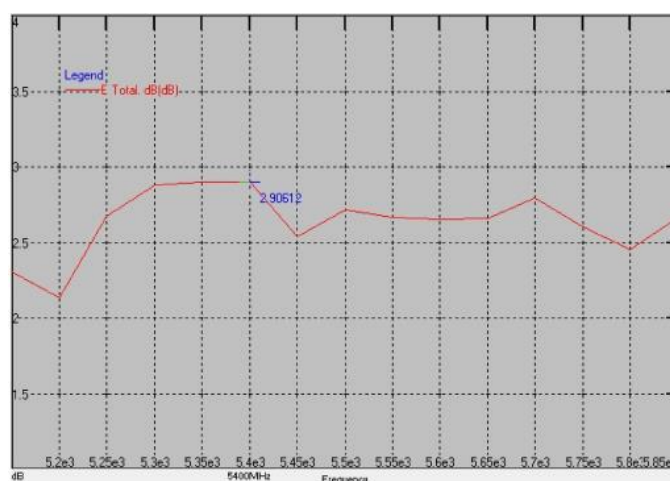


Layer	Max value	Min value	Average
5150(MHz)	0.61 dB	-7.89 dB	2.06 dB
5500(MHz)	1.60 dB	-7.46 dB	-1.51 dB
5850(MHz)	0.55 dB	-6.93 dB	-2.39 dB

### Peak Gain



Layer	Max value	Min value	Average
5150(MHz)	2.31 dB	-8.83 dB	-2.14 dB
5500(MHz)	2.66 dB	-10.15 dB	-1.58 dB
5850(MHz)	2.51 dB	-9.38 dB	-1.60 dB



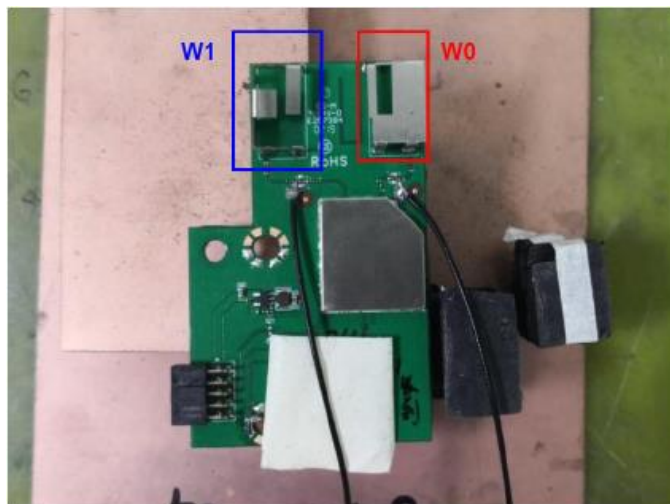
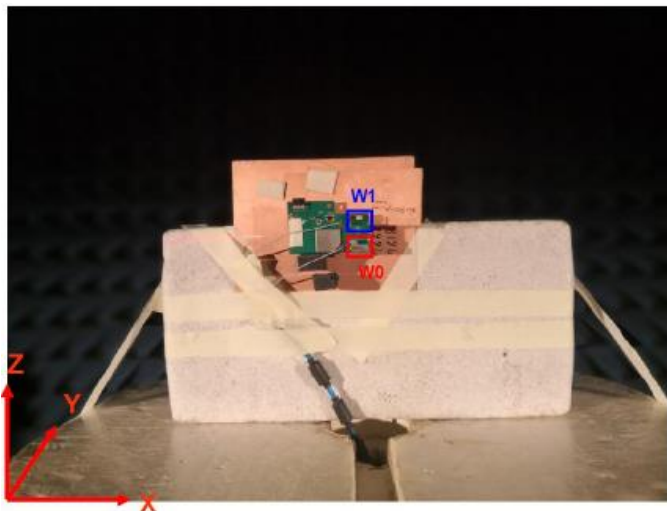
Peak Gain : Max 2.90 dBi

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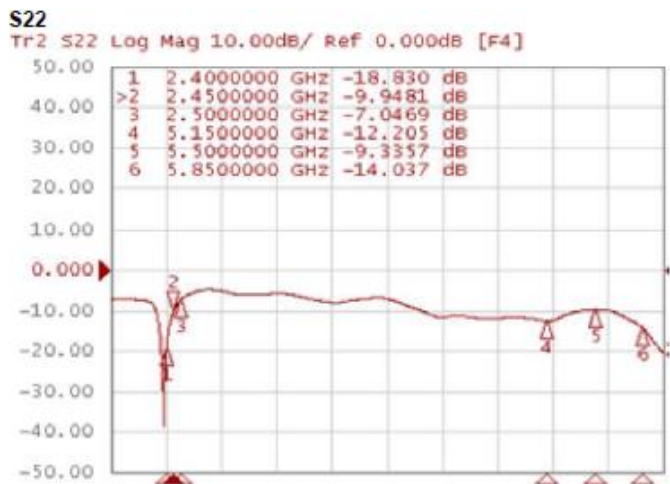
# Metal Stamping Antenna BTMA Series

## BTMA00150925GD1A01

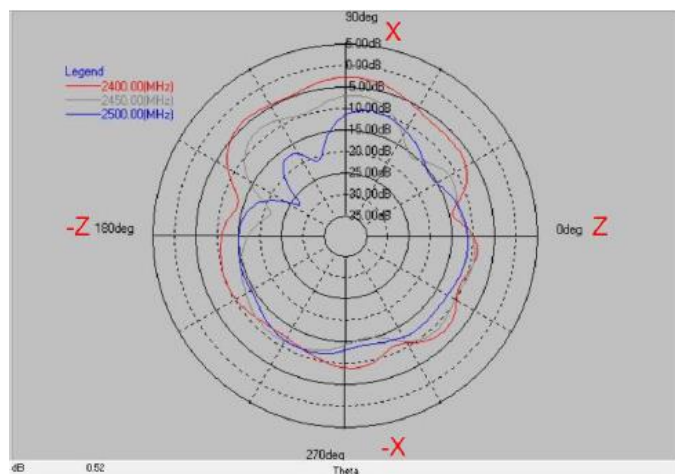
### Experimental Setup



### Return Loss S22

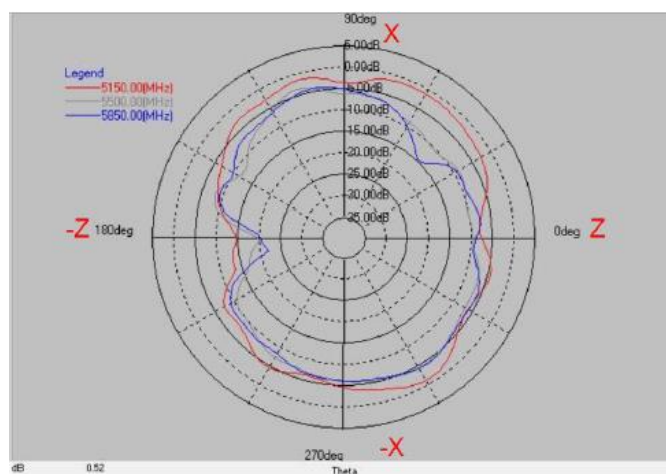


### Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-2.86 dB	-14.14 dB	-7.63 dB
2450(MHz)	-7.05 dB	-21.75 dB	-11.17 dB
2400(MHz)	-10.20 dB	-27.18 dB	-13.38 dB

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

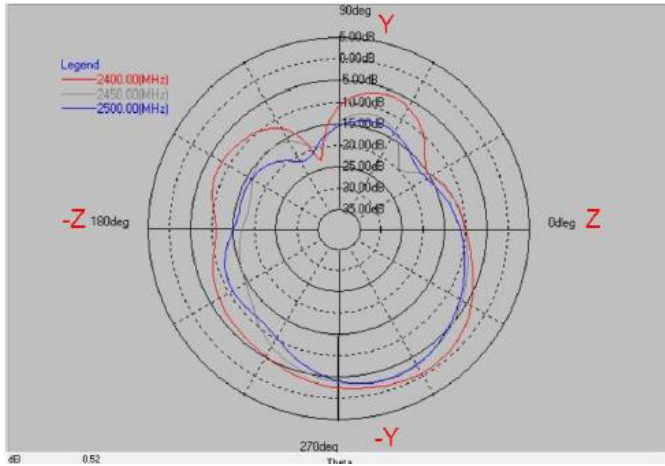


Layer	Max value	Min value	Average
5150(MHz)	-1.19 dB	-14.72 dB	-4.27 dB
5500(MHz)	-3.75 dB	-20.07 dB	-7.69 dB
5850(MHz)	-4.43 dB	-21.96 dB	-7.58 dB

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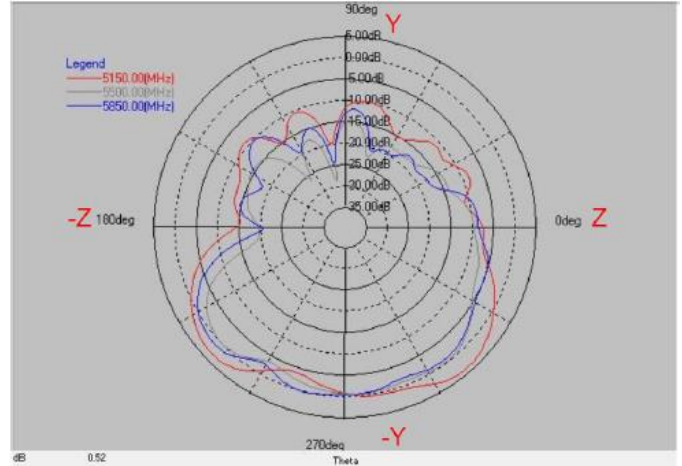
# Metal Stamping Antenna BTMA Series

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



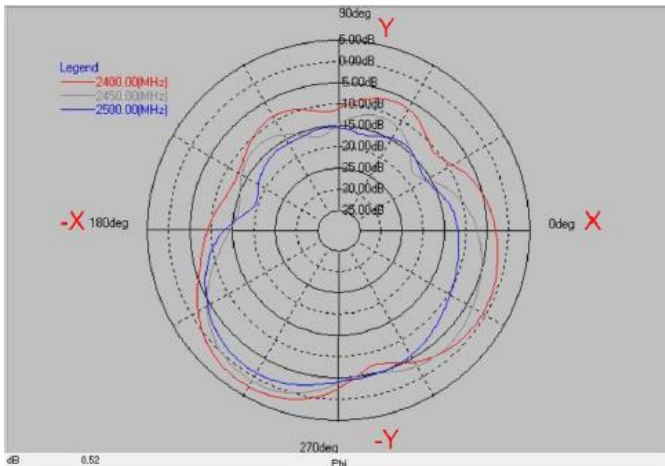
Layer	Max value	Min value	Average
2400(MHz)	-0.79 dB	-23.38 dB	-6.13 dB
2450(MHz)	-2.97 dB	-19.97 dB	-8.86 dB
2500(MHz)	-2.79 dB	-22.09 dB	-9.15 dB

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



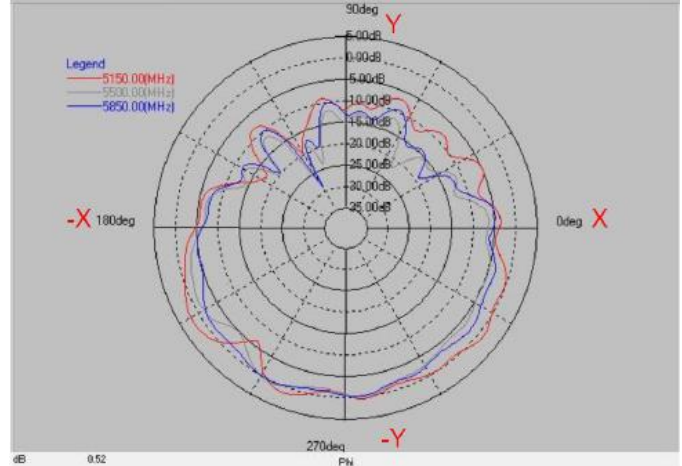
Layer	Max value	Min value	Average
5150(MHz)	3.91 dB	-20.30 dB	-2.51 dB
5500(MHz)	-0.15 dB	-28.99 dB	-5.54 dB
5850(MHz)	1.26 dB	-25.01 dB	-4.77 dB

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



Layer	Max value	Min value	Average
2400(MHz)	2.60 dB	-13.00 dB	-3.43dB
2450(MHz)	0.96 dB	-17.80 dB	-5.47 dB
2500(MHz)	-1.16 dB	-19.46 dB	-7.55 dB

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



Layer	Max value	Min value	Average
5150(MHz)	2.05 dB	-19.74 dB	-2.89 dB
5500(MHz)	0.31 dB	-26.05 dB	-5.10 dB
5850(MHz)	-0.01 dB	-29.00 dB	-4.68 dB

## Peak Gain

### 2G

Frequency (MHz)	Peak Gain (dBi)
2400	2.64
2410	2.22
2420	1.84
2430	1.85
2440	1.39
2450	1.15
2460	0.60
2470	0.07
2480	-0.18
2490	-0.67
2500	-0.56

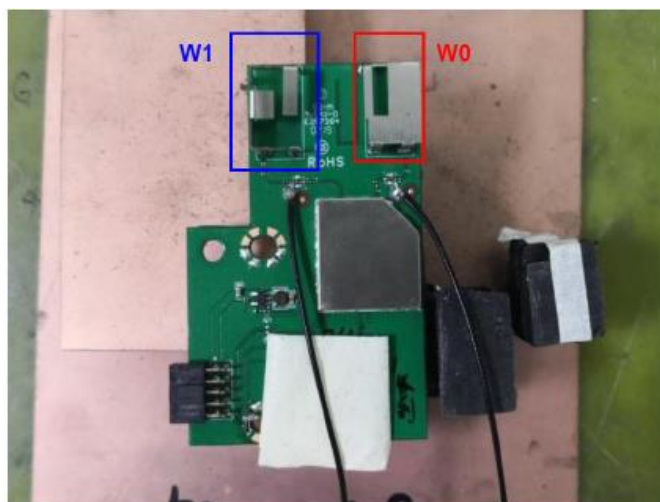
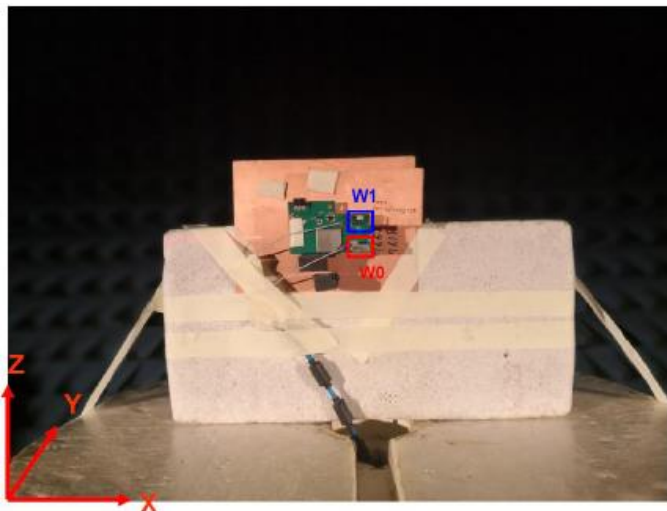
### 5G

Frequency (MHz)	Peak Gain (dBi)	Frequency (MHz)	Peak Gain (dBi)
5150	4.75	5700	1.02
5200	4.65	5750	1.21
5250	3.95	5800	1.76
5300	4.44	5850	1.47
5350	3.79		
5400	3.08		
5450	1.86		
5500	1.42		
5550	1.02		
5600	0.81		
5650	1.15		

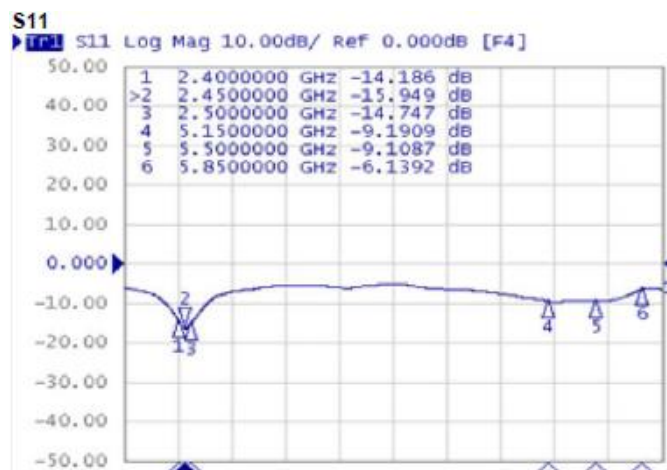
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## BTMA00151025GD1A02

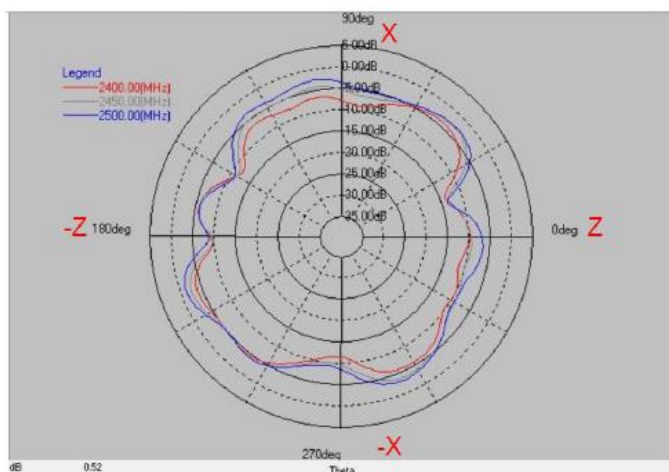
### Experimental Setup



### Return Loss S11

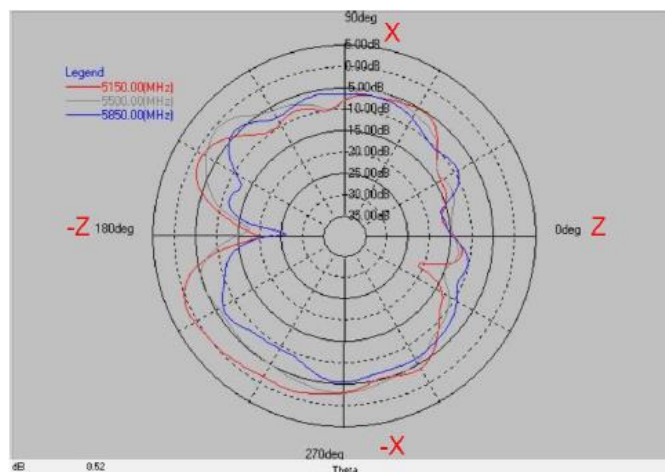


### Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane



Layer	Max value	Min value	Average
2400(MHz)	-3.84 dB	-13.97 dB	-7.26 dB
2450(MHz)	-2.47 dB	-13.35 dB	-6.04 dB
2400(MHz)	-1.35 dB	-13.67 dB	-5.24 dB

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

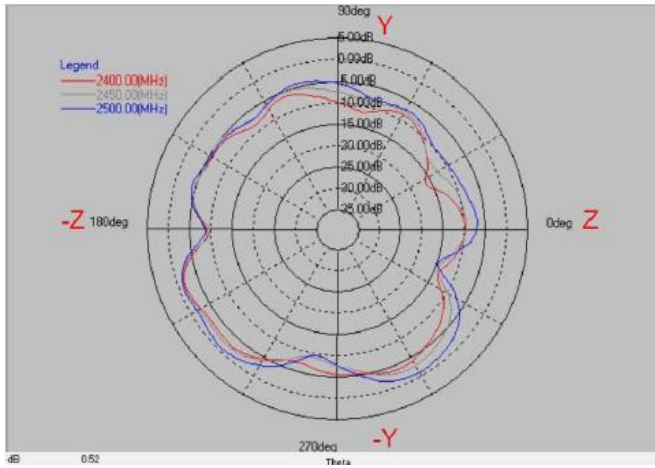


Layer	Max value	Min value	Average
5150(MHz)	0.83 dB	-21.25 dB	-5.01 dB
5500(MHz)	-0.91 dB	-17.69 dB	-6.29 dB
5850(MHz)	-4.37 dB	-26.43 dB	-8.33 dB

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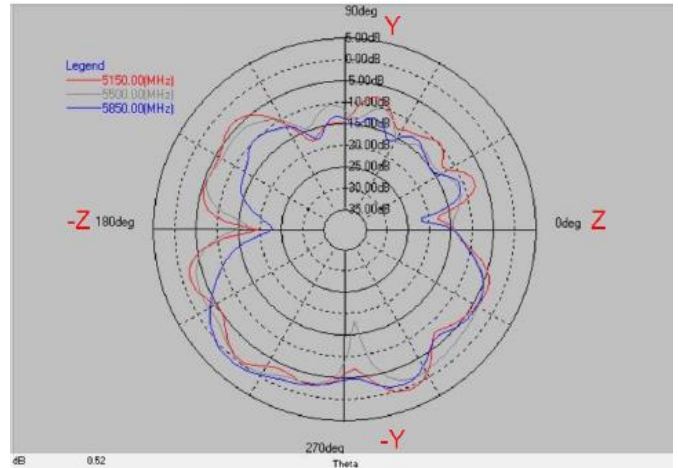
# Metal Stamping Antenna BTMA Series

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



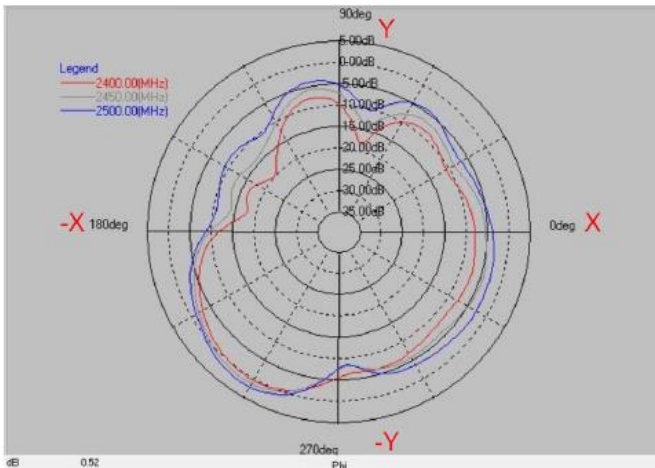
Layer	Max value	Min value	Average
2400(MHz)	-1.67 dB	-16.44 dB	-6.59 dB
2450(MHz)	-1.29 dB	-14.55 dB	-5.98 dB
2400(MHz)	-0.83 dB	-14.85 dB	-4.86 dB

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



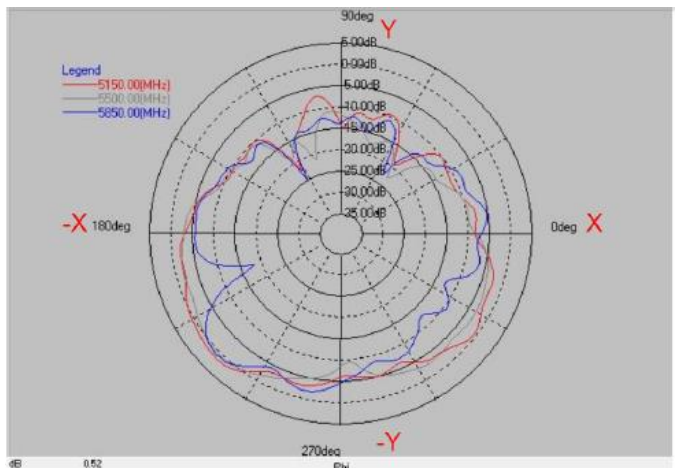
Layer	Max value	Min value	Average
5150(MHz)	0.52 dB	-19.78 dB	-5.44 dB
5500(MHz)	-0.30 dB	-18.34 dB	-5.76 dB
5850(MHz)	0.73 dB	-23.02 dB	-6.04 dB

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



Layer	Max value	Min value	Average
2400(MHz)	0.29 dB	-20.04 dB	-6.33 dB
2450(MHz)	1.22 dB	-14.26 dB	-5.10 dB
2500(MHz)	2.17 dB	-10.99 dB	-3.75 dB

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



Layer	Max value	Min value	Average
5150(MHz)	1.56 dB	-22.61 dB	-4.49 dB
5500(MHz)	0.53 dB	-22.96 dB	-5.27 dB
5850(MHz)	0.92 dB	-25.04 dB	-6.77 dB

## Peak Gain

### 2G

Frequency (MHz)	Peak Gain (dBi)
2400	1.55
2410	1.60
2420	1.58
2430	2.01
2440	2.04
2450	2.05
2460	2.42
2470	2.61
2480	2.61
2490	2.63
2500	2.64

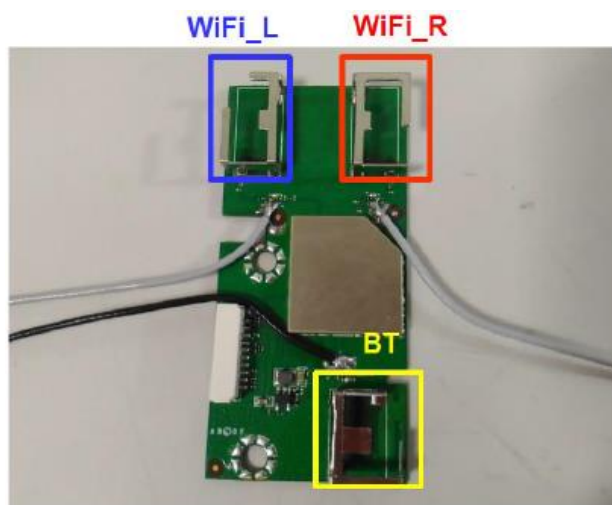
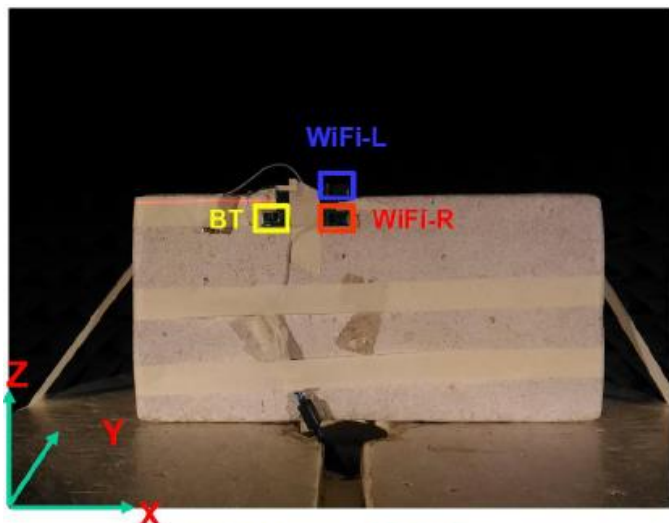
### 5G

Frequency (MHz)	Peak Gain (dBi)	Frequency (MHz)	Peak Gain (dBi)
5150	4.23	5700	2.13
5200	3.90	5750	1.89
5250	3.88	5800	1.52
5300	3.97	5850	1.44
5350	3.74		
5400	1.87		
5450	1.70		
5500	1.83		
5550	2.40		
5600	2.57		
5650	2.83		

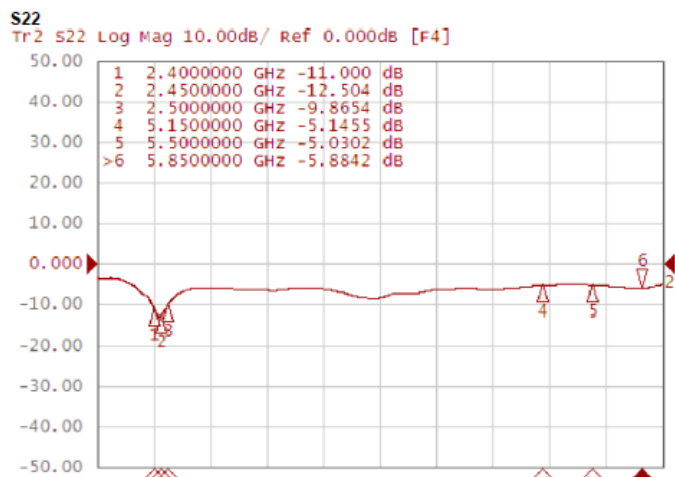
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## BTMA0017102G4D1A01

### Experimental Setup

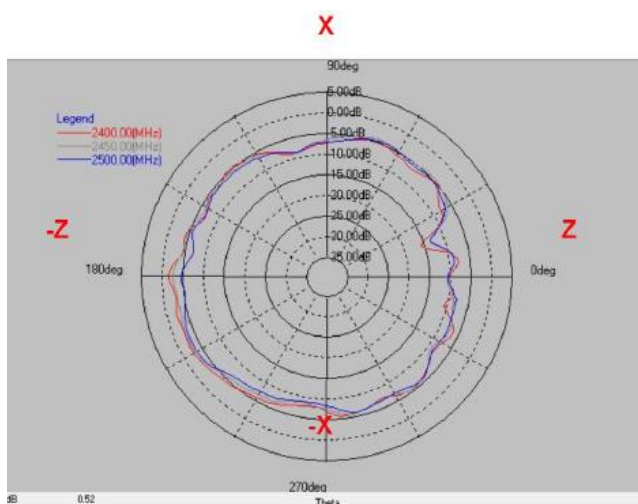


### Return Loss S22

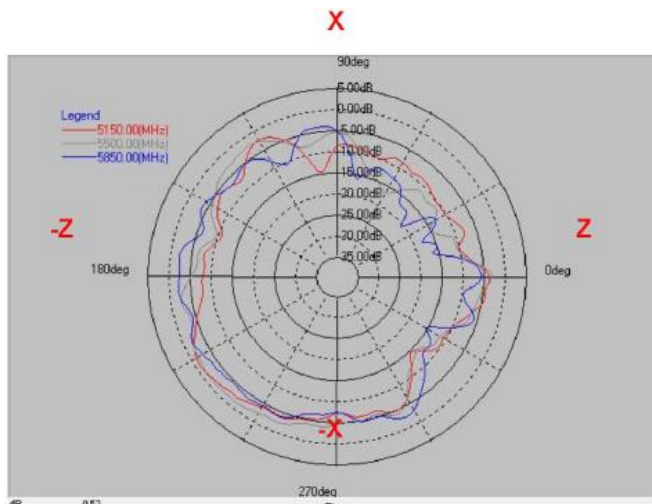


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane

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



Layer	Max value	Min value	Average
2400(MHz)	-1.36 dB	-15.89 dB	-5.81 dB
2450(MHz)	-2.52 dB	-13.39 dB	-5.91 dB
2400(MHz)	-3.50 dB	-13.23 dB	-6.54 dB

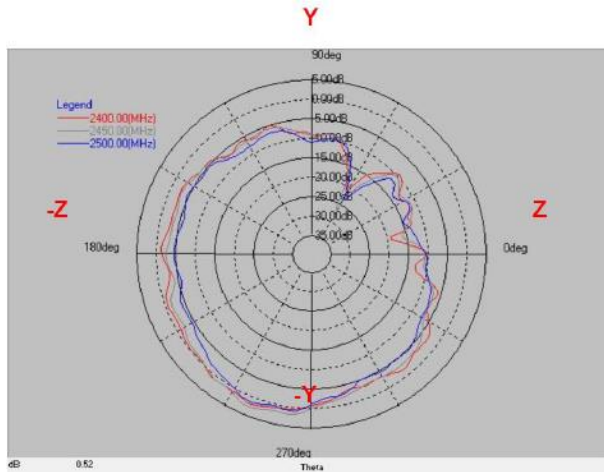


Layer	Max value	Min value	Average
5150(MHz)	-1.08 dB	-14.89 dB	-6.26 dB
5500(MHz)	-1.40 dB	-16.84 dB	-5.41 dB
5850(MHz)	-2.02 dB	-20.60 dB	-6.03 dB

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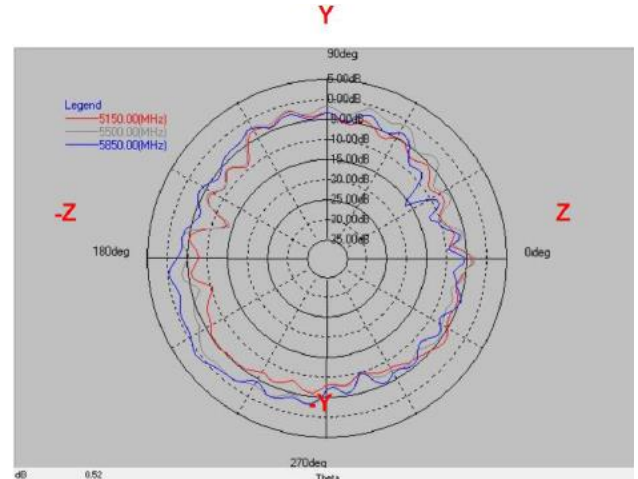
# Metal Stamping Antenna BTMA Series

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



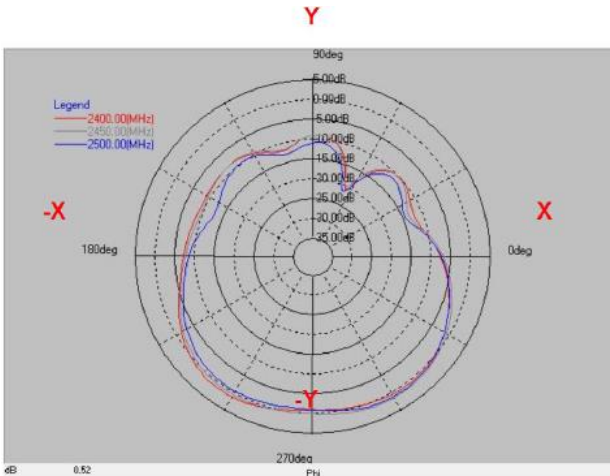
Layer	Max value	Min value	Average
2400(MHz)	1.74 dB	-20.97 dB	-3.49 dB
2450(MHz)	2.68 dB	-27.16 dB	-3.51 dB
2500(MHz)	1.21 dB	-23.67 dB	-4.97 dB

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



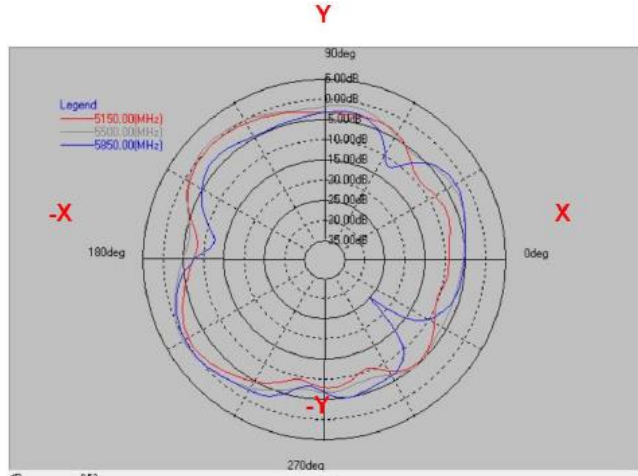
Layer	Max value	Min value	Average
5150(MHz)	-2.12 dB	-13.58 dB	-6.20 dB
5500(MHz)	-1.04 dB	-14.34 dB	-4.49 dB
5850(MHz)	0.77 dB	-16.24 dB	-4.18 dB

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



Layer	Max value	Min value	Average
2400(MHz)	1.19 dB	-21.06 dB	-3.46 dB
2450(MHz)	1.42 dB	-20.22 dB	-3.21 dB
2500(MHz)	1.14 dB	-21.85 dB	-4.01 dB

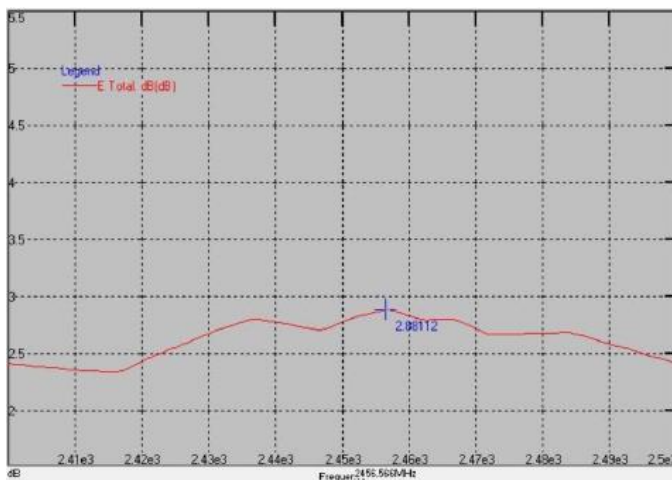
Frequency(MHz) : 5150~5850. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	-0.15 dB	-10.92 dB	-4.44 dB
5500(MHz)	0.60 dB	-8.28 dB	-2.98 dB
5850(MHz)	0.05 dB	-25.42 dB	-4.39 dB

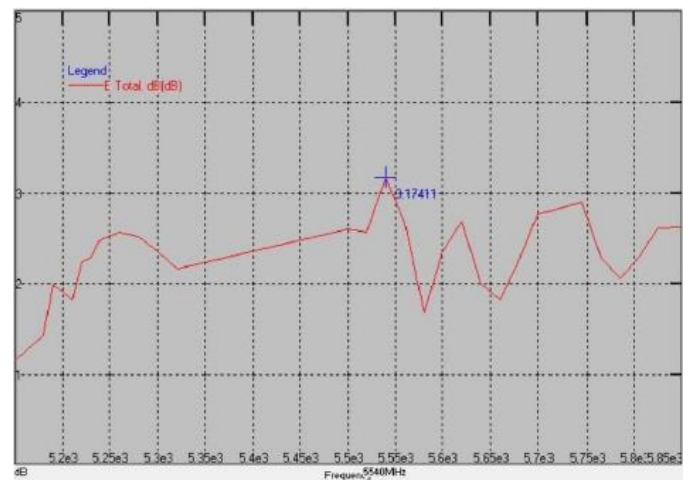
## Peak Gain

### 2G



Peak Gain : Max 2.88 dBi

### 5G

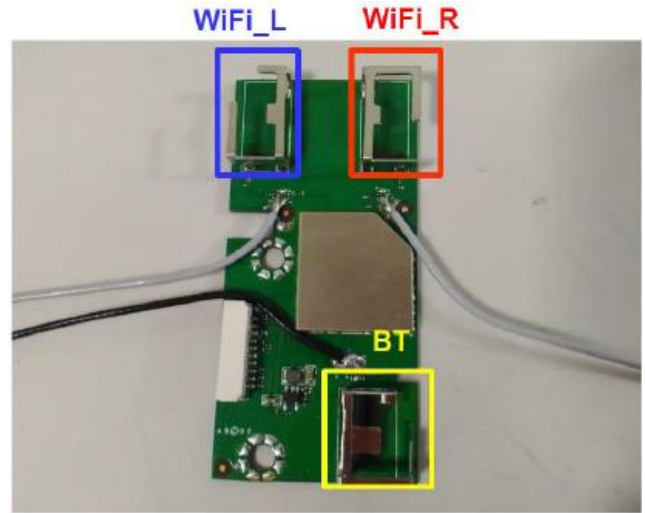
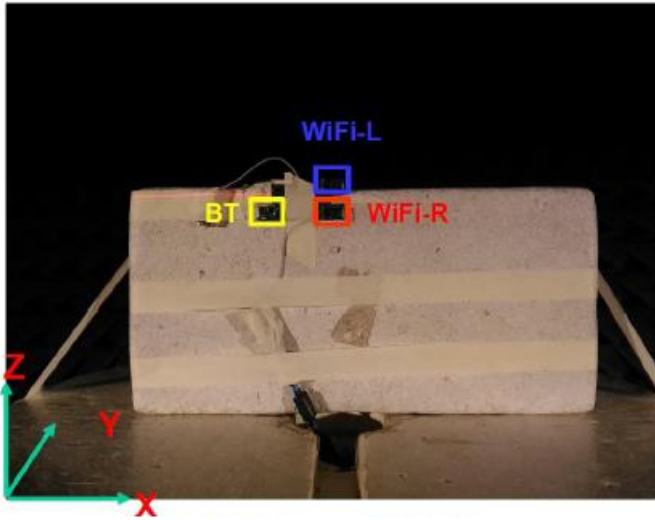


Peak Gain : Max 3.17 dBi

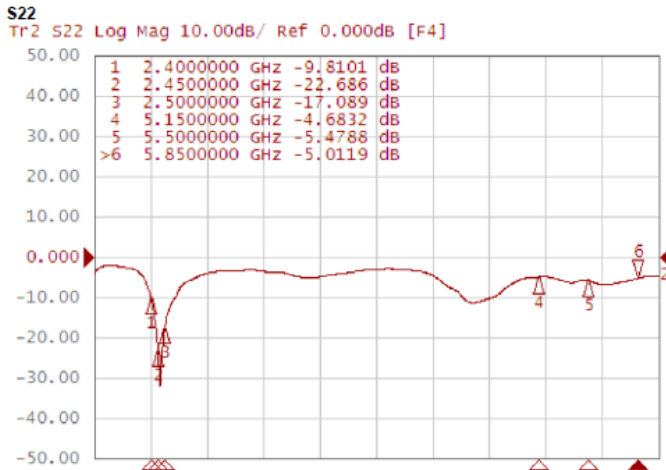
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## BTMA0017102G4D1A02

### Experimental Setup

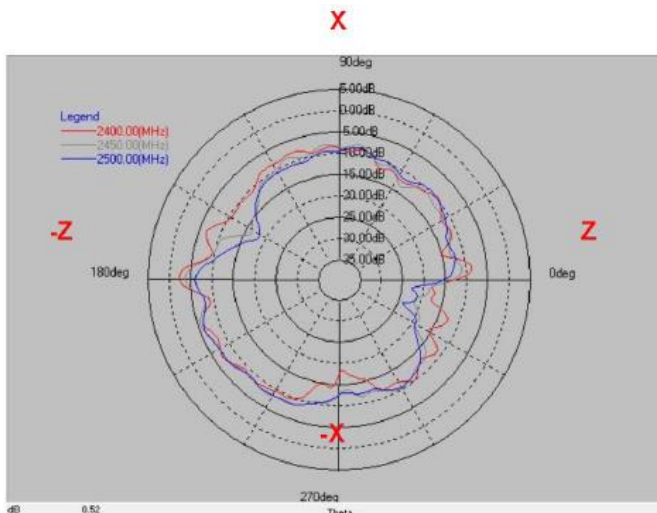


### Return Loss S22

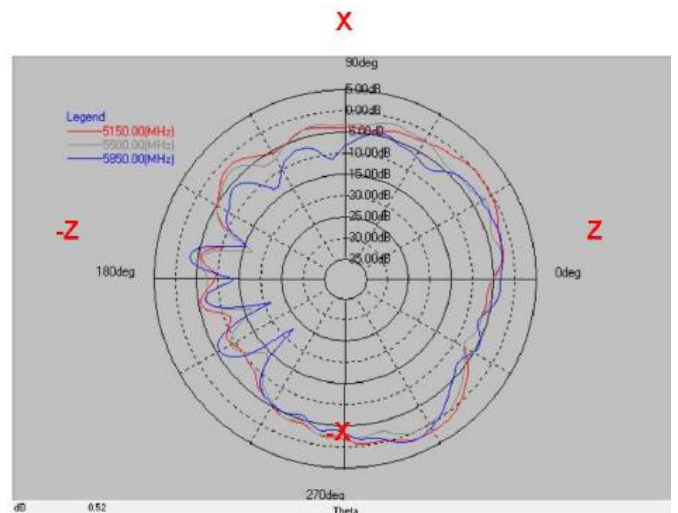


Frequency(MHz) : 2400~2500. Pattern Field : Z-X plane

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



Layer	Max value	Min value	Average
2400(MHz)	-2.23 dB	-18.66 dB	-9.68 dB
2450(MHz)	-3.51 dB	-21.67 dB	-9.99 dB
2400(MHz)	-6.01 dB	-24.11 dB	-10.54 dB

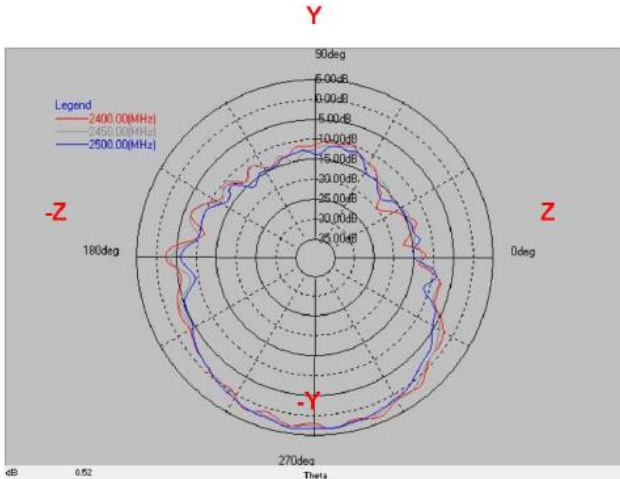


Layer	Max value	Min value	Average
5150(MHz)	1.61 dB	-15.19 dB	-3.16 dB
5500(MHz)	-0.19 dB	-17.15 dB	-4.14 dB
5850(MHz)	1.72 dB	-22.93 dB	-4.75 dB

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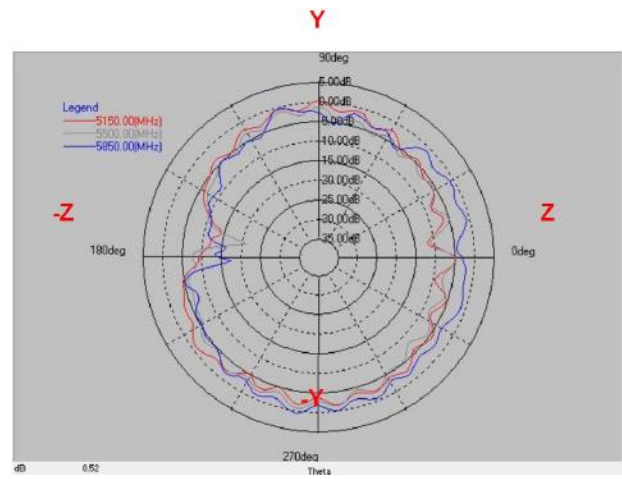
# Metal Stamping Antenna BTMA Series

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



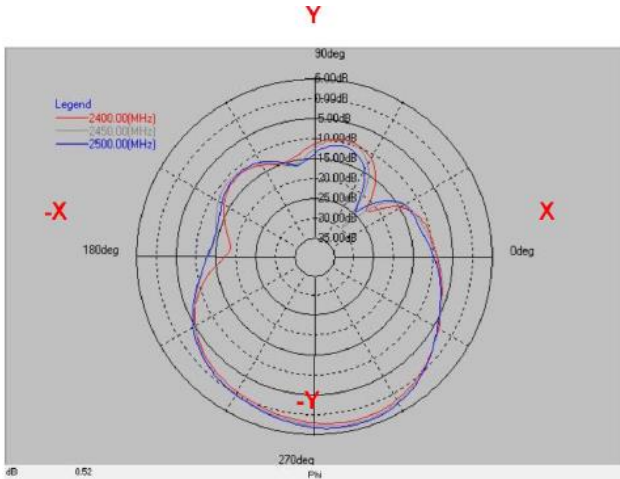
Layer	Max value	Min value	Average
2400(MHz)	3.36 dB	-20.21 dB	-2.86 dB
2450(MHz)	3.14 dB	-15.73 dB	-2.94 dB
2400(MHz)	3.39 dB	-17.57 dB	-3.19 dB

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



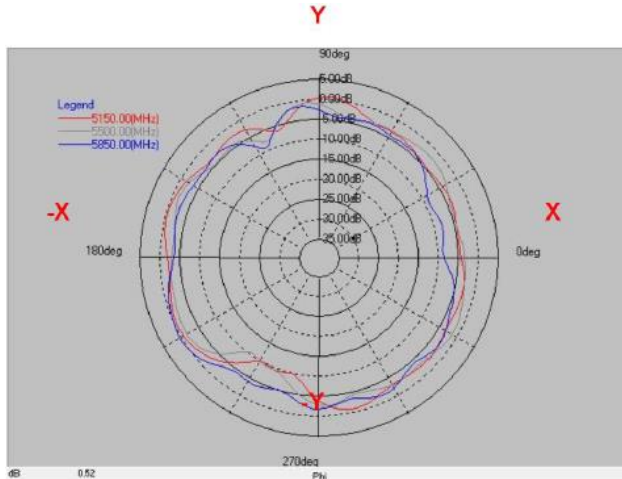
Layer	Max value	Min value	Average
5150(MHz)	0.09 dB	-14.59 dB	-4.02 dB
5500(MHz)	-0.76 dB	-21.21 dB	-4.87 dB
5850(MHz)	0.44 dB	-17.49 dB	-3.22 dB

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



Layer	Max value	Min value	Average
2400(MHz)	2.46 dB	-22.31 dB	-3.81 dB
2450(MHz)	3.20 dB	-29.93 dB	-3.30 dB
2500(MHz)	3.64 dB	-24.60 dB	-3.05 dB

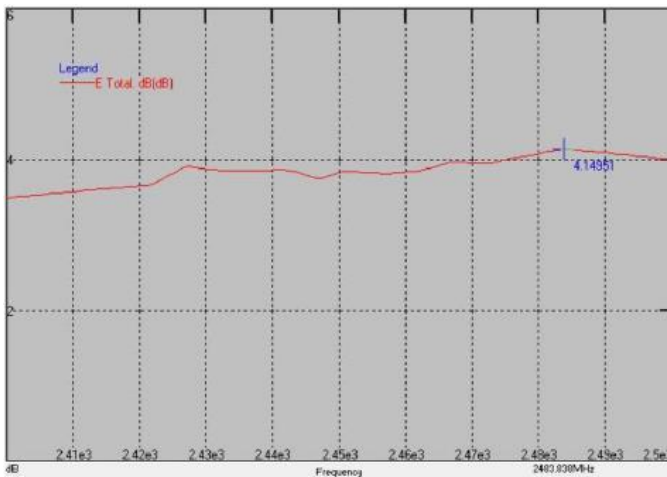
Frequency(MHz) : 5150~5850. Pattern Field : X-Y plane



Layer	Max value	Min value	Average
5150(MHz)	0.31 dB	-10.17 dB	-2.80 dB
5500(MHz)	-0.96 dB	-10.79 dB	-3.36 dB
5850(MHz)	0.33 dB	-9.41 dB	-3.55 dB

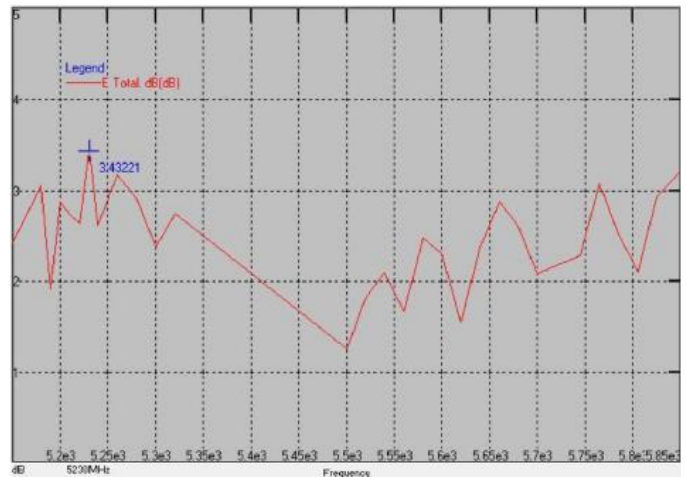
## Peak Gain

### 2G



Peak Gain : Max 4.14 dBi

### 5G



Peak Gain : Max 3.43 dBi

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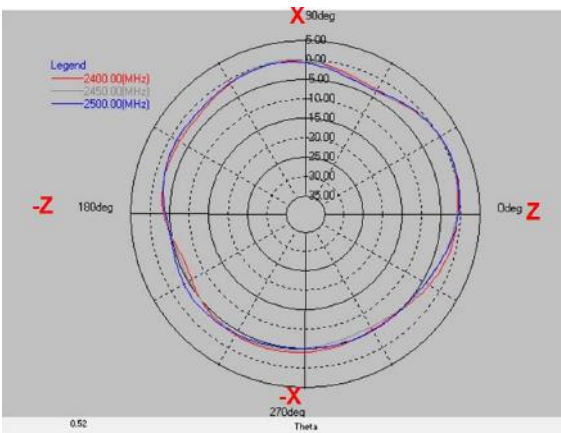
# Metal Stamping Antenna BTMA Series

## BTMA0027152G4C1A04

Return Loss S11 : 2G Ant 1 → 25G Ant 2

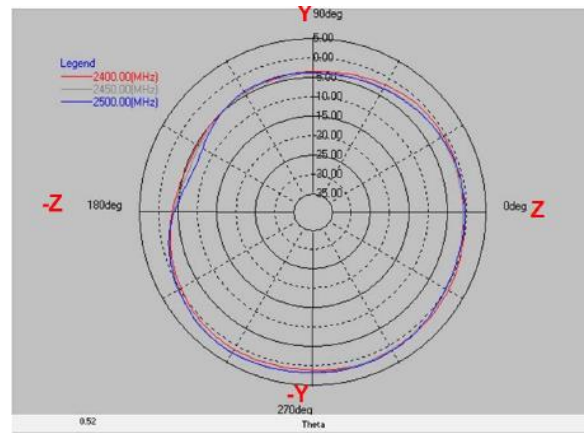


Frequency(MHz) : 2400~2500. Z-X Plane



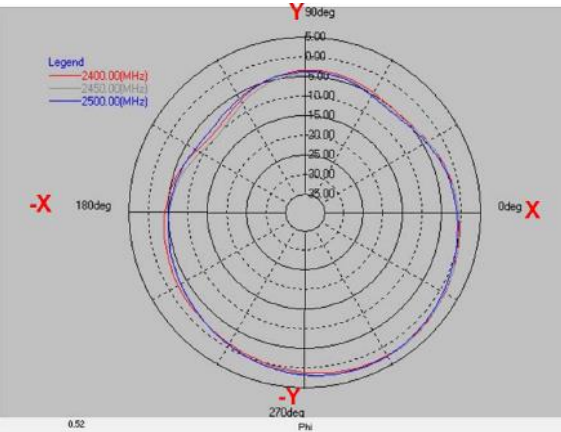
Layer	Max value	Min value	Average
2400(MHz)	0.31 dB	-6.50 dB	-2.43 dB
2450(MHz)	0.22 dB	-6.28 dB	-2.59 dB
2500(MHz)	0.48 dB	-5.27 dB	-2.44 dB

Frequency(MHz) : 2400~2500. Z-Y Plane



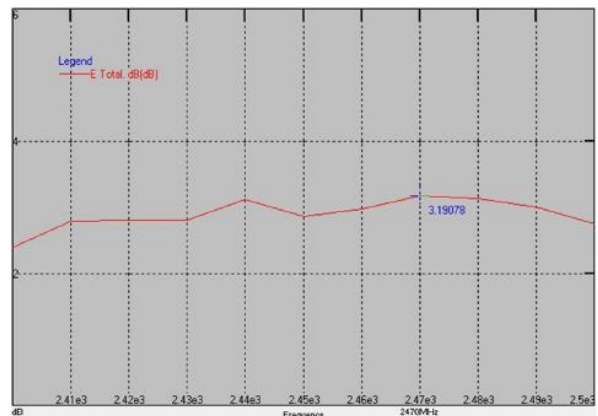
Layer	Max value	Min value	Average
2400(MHz)	1.34 dB	-5.51 dB	-0.89 dB
2450(MHz)	1.91 dB	-6.13 dB	-0.92 dB
2500(MHz)	2.07 dB	-7.38 dB	-0.80 dB

Frequency(MHz) : 2400~2500. X-Y Plane



Layer	Max value	Min value	Average
2400(MHz)	2.27 dB	-9.20 dB	-1.54 dB
2450(MHz)	2.60 dB	-10.29 dB	-1.50 dB
2500(MHz)	2.40 dB	-8.04 dB	-1.62 dB

Peak Gain



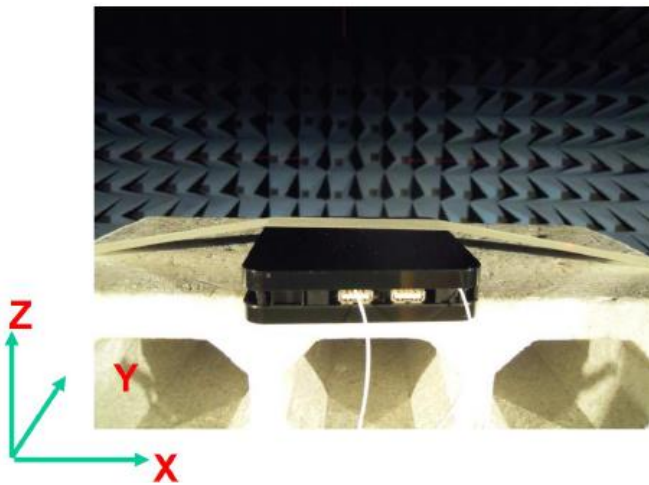
Peak Gain : Max 3.1993.19 dBi

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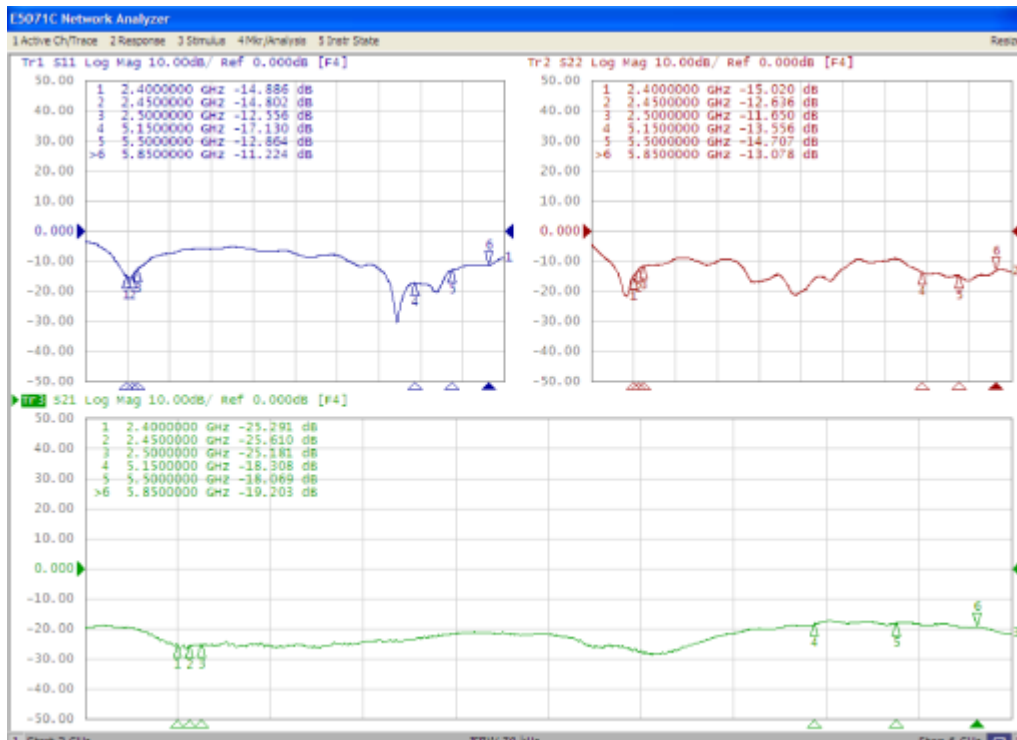
# Metal Stamping Antenna BTMA Series

## BTMA00290825GD1A02

### Experimental Setup



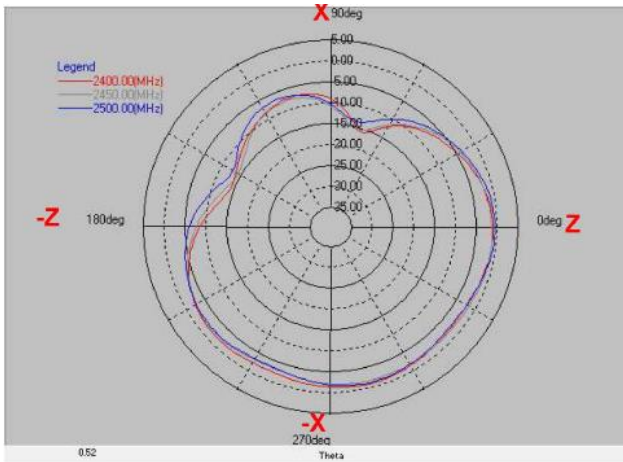
### Return Loss Ant 1 → Ant 2



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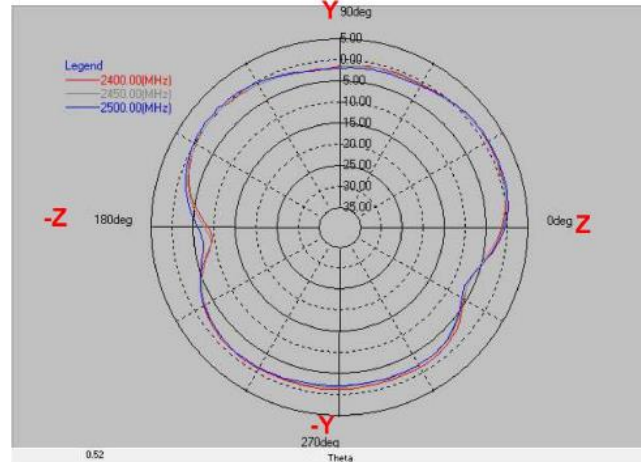
# Metal Stamping Antenna BTMA Series

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



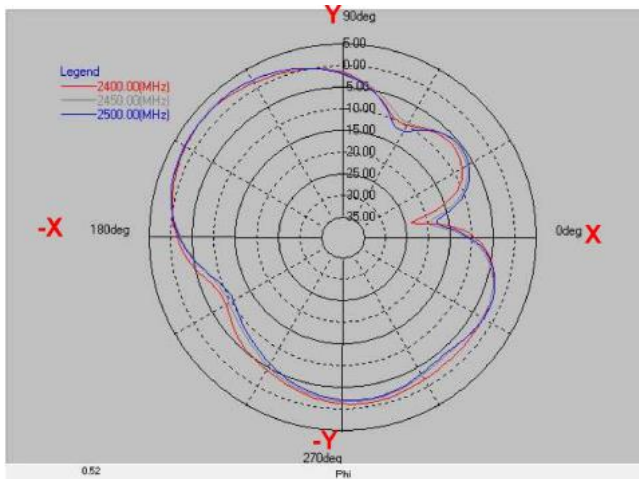
Layer	Max value	Min value	Average
2400(MHz)	-0.89 dB	-16.13 dB	-3.98 dB
2450(MHz)	-1.06 dB	-15.91 dB	-4.19 dB
2500(MHz)	-0.51 dB	-11.13 dB	-3.95 dB

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



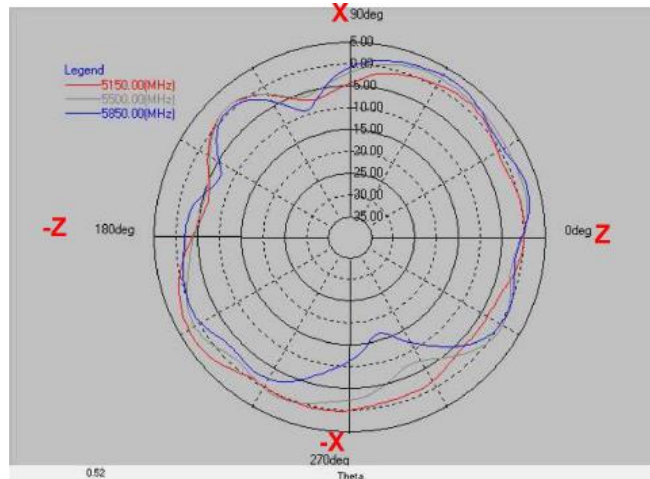
Layer	Max value	Min value	Average
2400(MHz)	0.76 dB	-9.47 dB	-1.56 dB
2450(MHz)	0.94 dB	-9.03 dB	-1.73 dB
2500(MHz)	1.04 dB	-7.20 dB	-1.56 dB

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



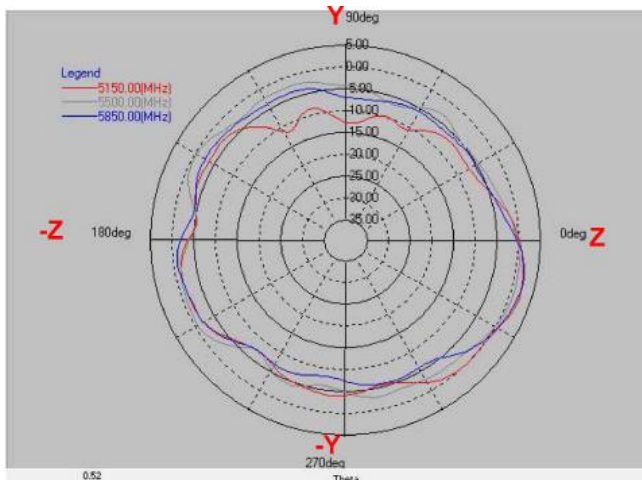
Layer	Max value	Min value	Average
2400(MHz)	2.47 dB	-23.81 dB	-2.21 dB
2450(MHz)	2.71 dB	-19.78 dB	-2.28 dB
2500(MHz)	2.55 dB	-17.95 dB	-2.40 dB

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



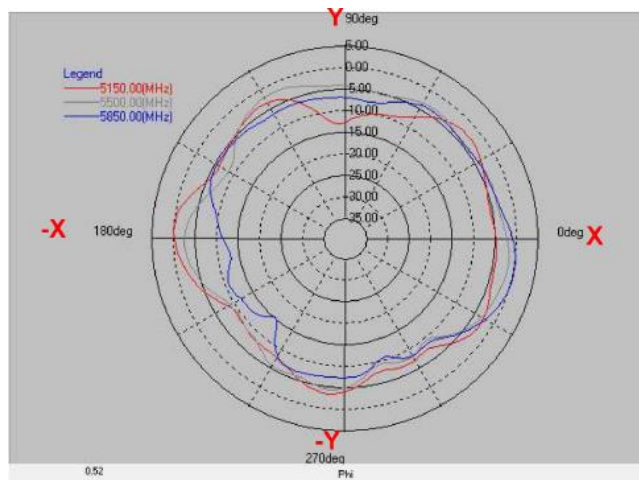
Layer	Max value	Min value	Average
5150(MHz)	2.83 dB	-7.47 dB	-0.79 dB
5500(MHz)	2.08 dB	-7.55 dB	-0.73 dB
5850(MHz)	3.02 dB	-16.98 dB	-1.22 dB

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



Layer	Max value	Min value	Average
5150(MHz)	2.33 dB	-13.06 dB	-3.37 dB
5500(MHz)	0.82 dB	-7.57 dB	-2.62 dB
5850(MHz)	2.27 dB	-8.44 dB	-3.28 dB

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



Layer	Max value	Min value	Average
5150(MHz)	-0.04 dB	-13.16 dB	-4.88 dB
5500(MHz)	-1.42 dB	-9.61 dB	-4.62 dB
5850(MHz)	0.25 dB	-15.48 dB	-5.55 dB

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