

# BT FPC Antenna (MB-J215)

## 1. Explanation of Product Number

S	2	B	4	B	B	1	F	1	B	7	7	0	0	0
				(1)	(2)	(3)	(4)	(5)						



### Product Description:

(1) Product Categories:

B:BT Antenna

(2) Dimensions:

B1:8.0\*8.0 (mm)

(3) Material:

F: FPC

(4) Working Frequencies:

1B: 2.4G-2.5G

(5) Antenna Series:

01: Serial number

#### Tolerances (Unless otherwise specified)

X :  $\pm 1$       X.X :  $\pm 0.1$       X.XX :  $\pm 0.01$

Angle :  $\pm$       Hole Dia. :  $\pm$

Scale :      Unit : mm

Drawn By : Andy      Checked By : Simon

Designed By : Simon      Approved By : Simon

深圳市明博电子有限公司

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TITLE : BT FPC Antenna(MB-J215)

PART  
NO.

S2B4BB1F1B77000

REV.  
A

## 2. Features

- \*Stable and reliable in performances
- \*RoHS compliance
- \*Low cost

## 3. Applications

\*BT

## 4. Description

\* MINGBO FPC antenna series are specially designed for 2.4G-2.5G band application. Based on MINGBO proprietary designs and processes, this FPC antenna has excellent stability and sensitivity to consistently provide high signal reception efficiency.

## 5. Antenna Electrical Specifications :

Characteristics	Specifications			Unit
Outline Dimensions	8.0*8.0			mm
Frequency	2400~2500			MHz
Impedance	50			Ω
Polarization	Linear Polarization			
Return Loss Table	Return Loss			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
dB	-16.98	-29.81	-17.34	
VSWR Table	VSWR			
Freq.Band	2.4G Hz	2.45G Hz	2.5G Hz	
	1.18	1.08	1.29	
GAIN Table	Total Gain = Xpol + Ppol			
Freq.Band	2400MHz	2450MHz	2485MHz	2500MHz
Peak Gain(dBi)	1.51	1.72	1.69	1.23

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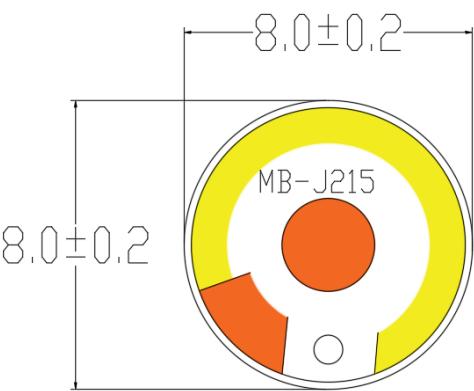
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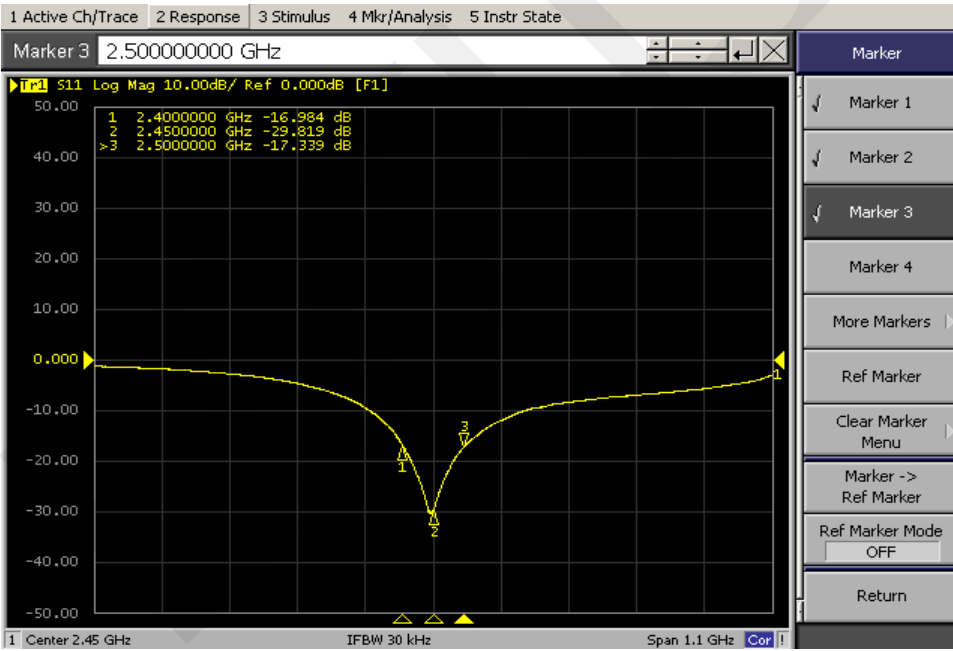
6. Dimensions (unit: mm)

blic errand: ±0.2mm



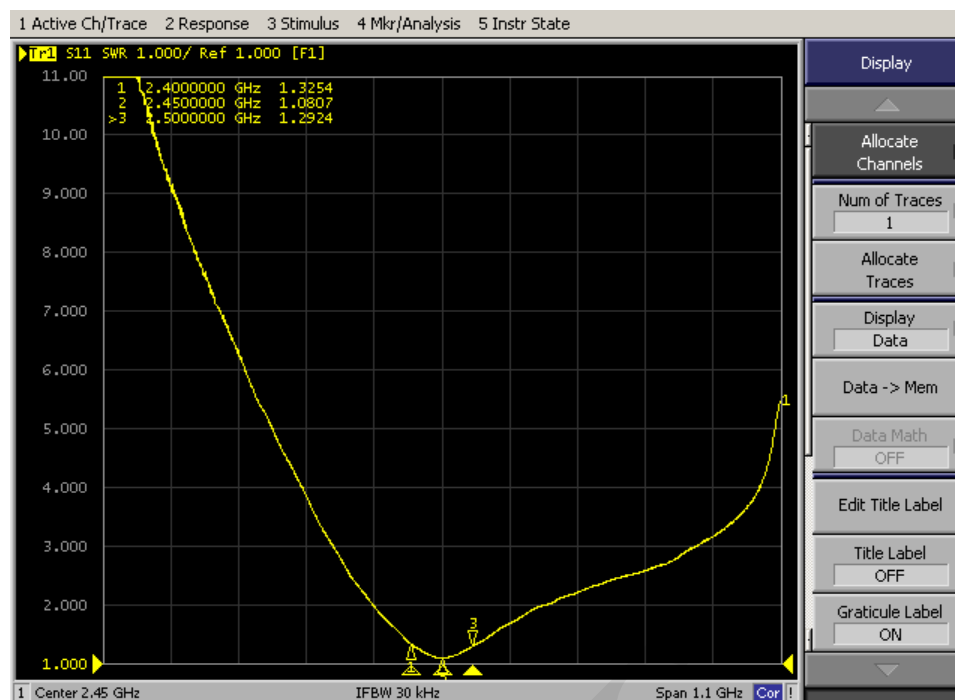
7. Measurement Characteristics:

(1) Return Loss

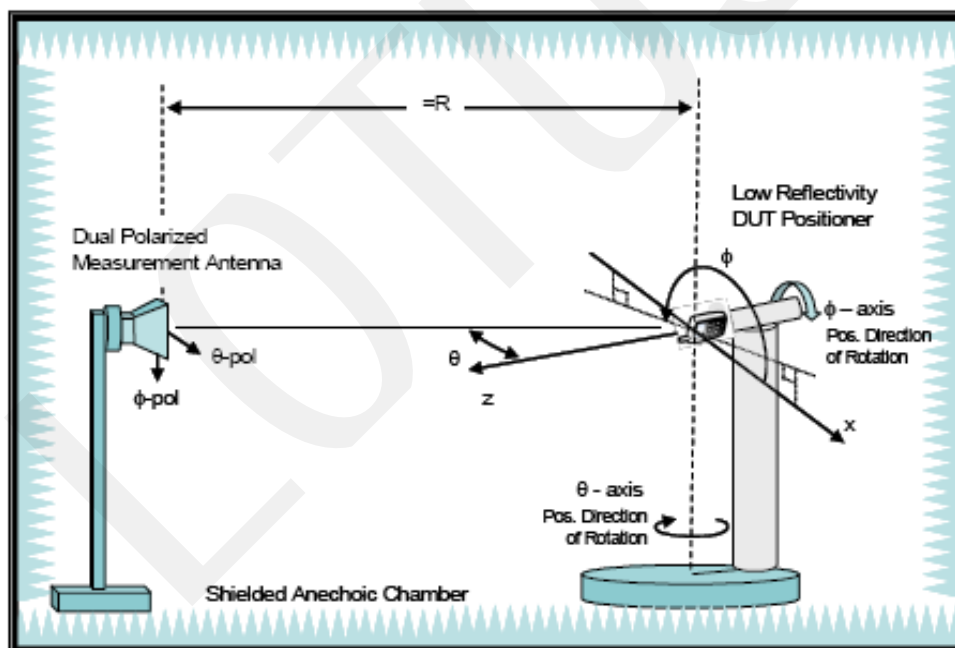


(2) VSWR

Tolerances (Unless otherwise specified) X : ± 1      X.X : ± 0.1      X.XX : ± 0.01 Angle : ±      Hole Dia. : ±		深圳市明博电子有限公司	
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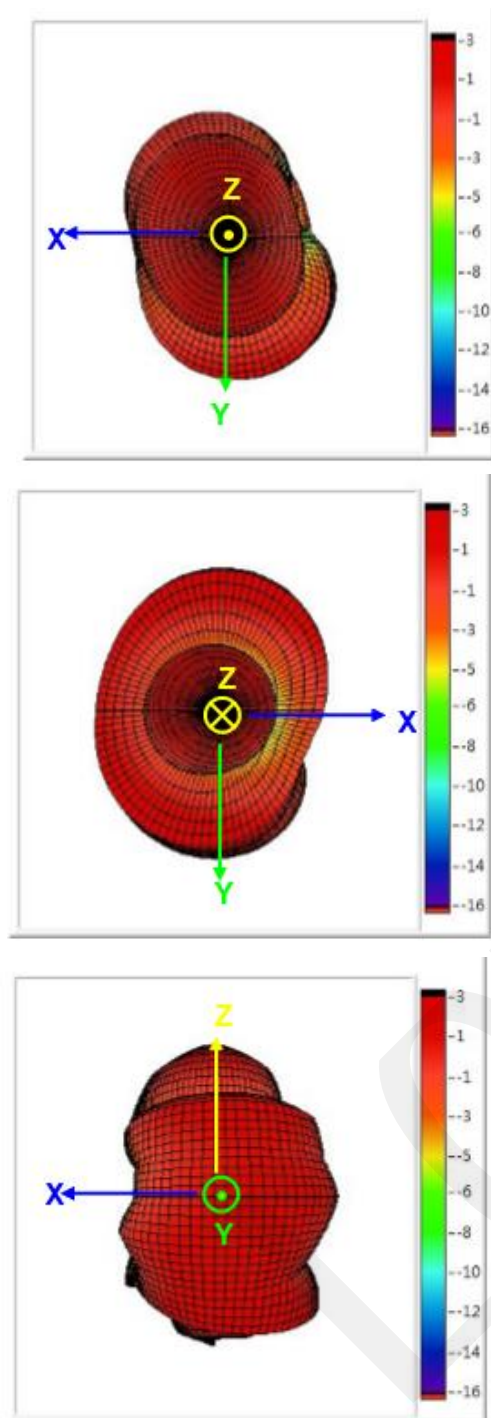
## 8. Three D Radiation Pattern measurements



## 9. Radiation Pattern

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### 9-1.3D Gain Pattern (Radiation Pattern at 2450 MHz)



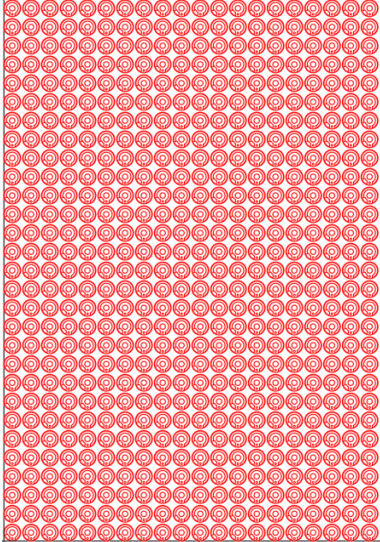



### 9-2.2D Gain complete machine (Radiation Pattern at 2450 MHz)

### 9-3.complete machine Efficiency Table

<b>Tolerances (Unless otherwise specified)</b> X : $\pm 1$ X.X : $\pm 0.1$ X.XX : $\pm 0.01$ <b>Angle : <math>\pm</math></b> <b>Hole Dia. : <math>\pm</math></b>		<b>深圳市明博电子有限公司</b>	
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Frequency(MHz)	2400	2420	2450	2460	2480	2500
Efficiency (dB)	-2.22	-1.71	-2.09	-2.13	-2.24	-2.07
Efficiency (%)	30.9	32.3	36	35	29.18	26
Gain (dBi)	1.51	1.62	1.72	1.7	1.69	1.23

10-1 产品包装 Product packaging

版本 edition:: V2.0	页码 Page: 1/1
1.产品排版: 20*29=580PCS	2.离型纸隔层摆放保护天线 Barrier paper protection products
	
3.密封袋封装效果 Sealing bag packaging effect	4.纸箱封箱效果(贴出货标签和 ROHS 标签) Carton sealing effect
	

10-2.Revision Control:

Revision	Date	Content	Remark
A	2024-4-30	New Issued.	N/A

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