

# M113-IOT RF specification

蓝牙 PCB 印制天线 Bluetooth PCB printed antenna

供应商/supplier: SHENZHEN FREQUENC V EXTENSION IOT TECHNOLOGY CO.,LTD.

Address: Rm 301B, Junfeng Innovation ParkFuyong, Baoan Dist,Shenzhen

型号/model: MT90C-S-M2

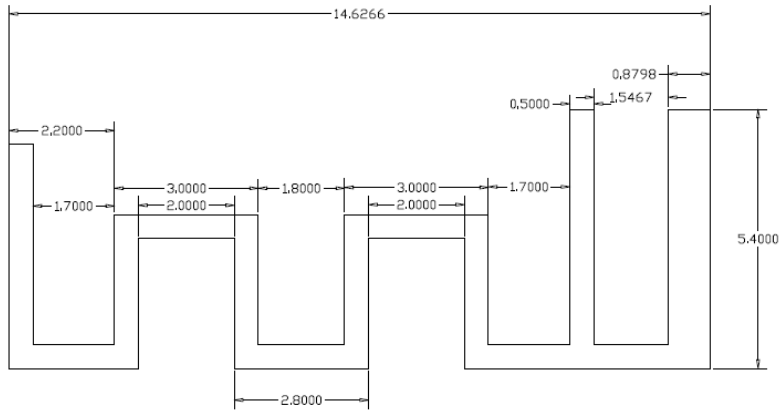
频率范围 Frequency Range (MHz): 2400-2500

频带宽度 Bandwidth (MHz): 100

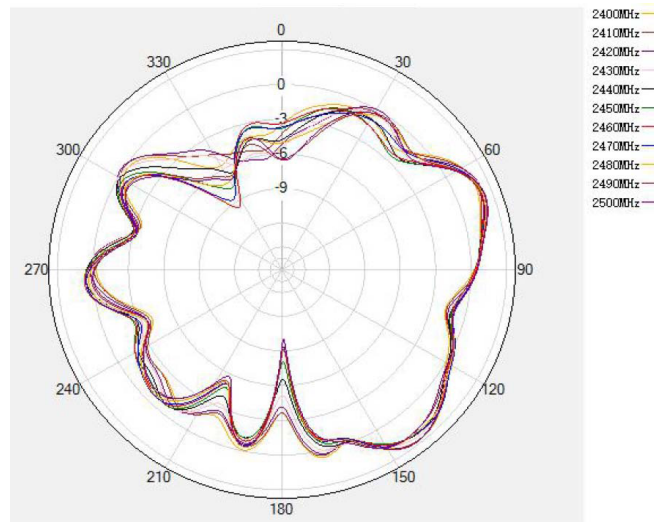
输入阻抗 Input Impedance ( $\Omega$ ): 50

增益 Gain (dBi): 3

电压驻波比 V.S.W.R: <2



Antenna size chart



Radiation Pattern

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## GPS 天线/GPS Antenna

供应商/supplier: INPAQ TECHNOLOGY CO., LTD.

Address: Room 802, Unit 2, Building A, Kexing Science Park, No.15 Keyuan Road, Science Park Central District, Nanshan District, Shenzhen, Guangdong

型号/model: PA1590MI4G-289-2ZM

### PA1590MI4G-289-2ZM

### ENGINEERING SPECIFICATION

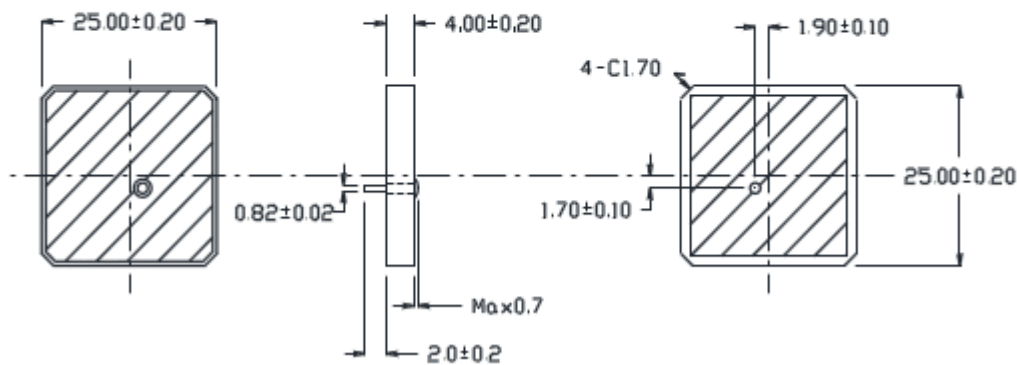
#### 1. Typical Electrical Properties

Characteristics	Specification	Unit	Conditions
Center Frequency	1575.42±2/1602.0±2	MHz	In Customer's model
	1598.7±2	MHz	By Test Ground Plane
Polarization	RHCP		
S11	< -20	dB	By Test Ground Plane
Frequency Temperature Coefficient	0±20	ppm/°C	-40°C to +85°C

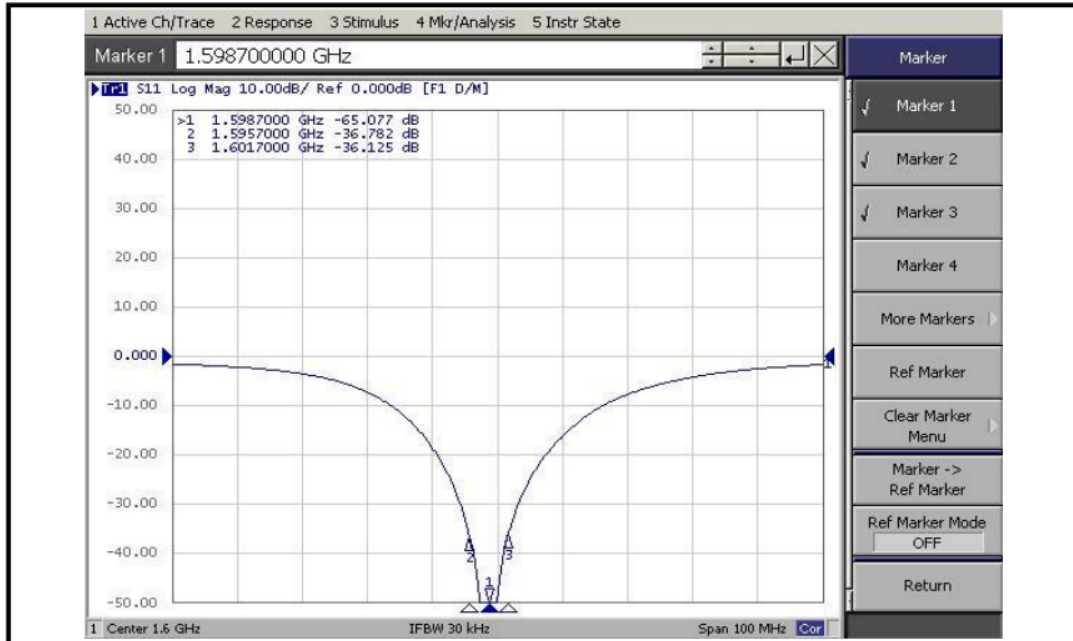
PA1590MI4G-289-2ZM · G: Green parts (RoHS compliance)

-289 are the code of project number, - 2ZMshow of appendix

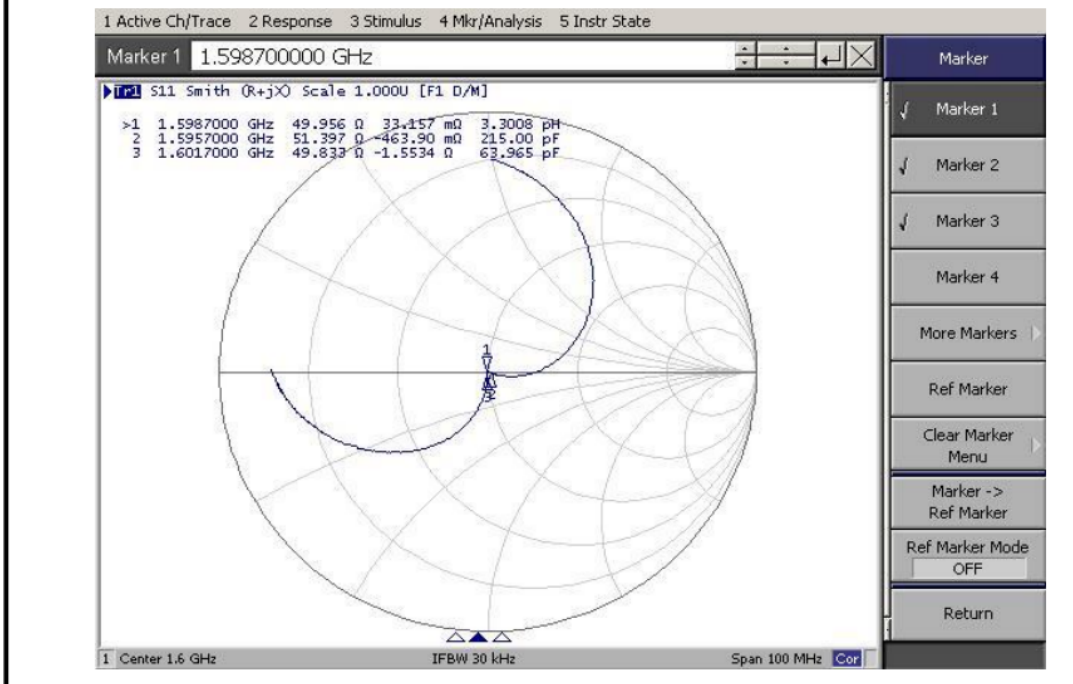
#### 2. Dimension: (Unit: mm)



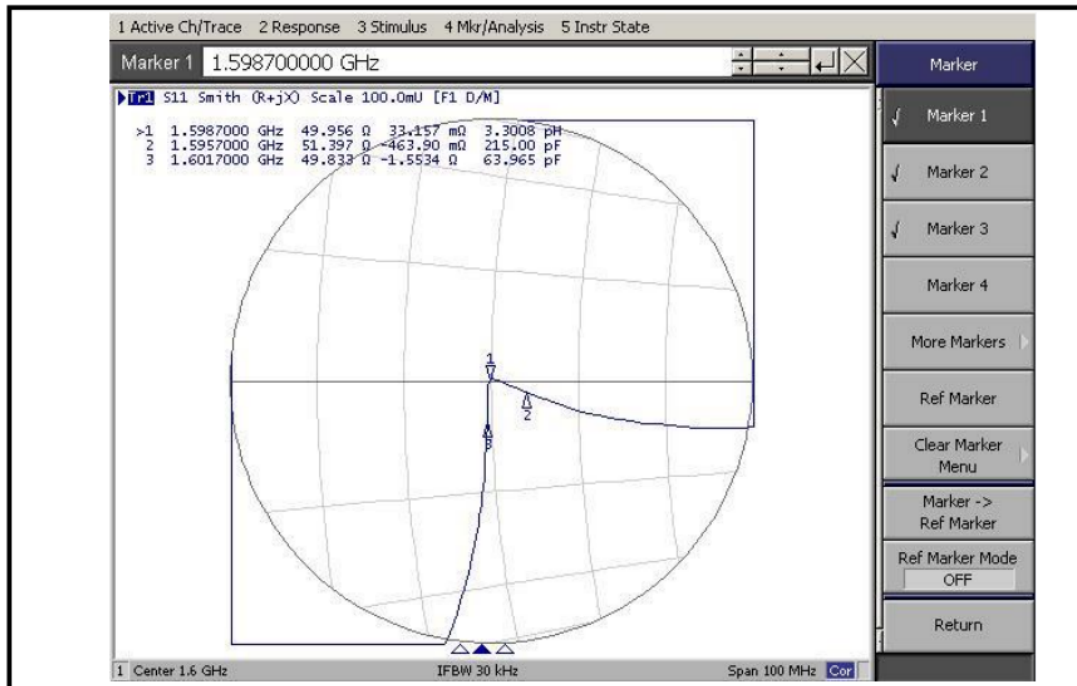
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## 5. Measured Input Impedance on a Smith Chart



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## 6. Explanation of Appendix

PA1590MI4G -289- 2 Z M  
 | | |  
 (1) (2) (3)

(1) 2=2.0mm pin Length

(2) Adhesive Tape Z 22×22mm

Adhesive Transfer Tape Specification

1.1 TAPE: D038 22×22×0.16mm

1.2 Thickness : 0.12 ± 5% mm

1.3 Release Liner : 0.1mm (typ.) printed paper or paper

1.4 Dimension : mm

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## LTE Antenna

供应商/supplier:

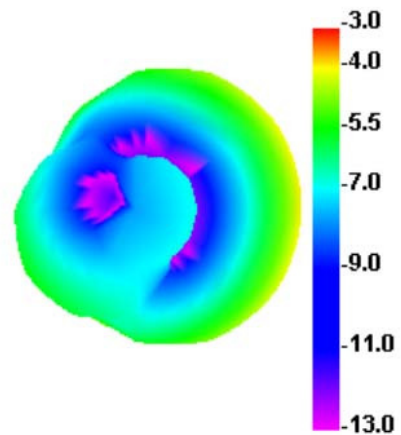
SHENZHEN FREQUENCV EXTENSION IOT TECHNOLOGY CO.,LTD.

Adress: Rm 301B, Junfeng Innovation ParkFuyong, Baoan Dist,Shenzhen

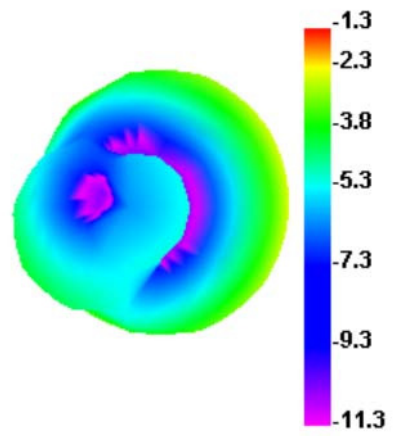
型号/model: M113-BG95-M1

Antenna Performance Table								
Band	Channel No.	TRP (dBm)	TIS (dBm)		Band	Channel No.	TRP (dBm)	TIS (dBm)
eMTC B2	L	16.28			eMTC B12	L	14.58	
	M	16.49				M	14.89	
	H	16.78	-89.32			H	14.98	-87.25
eMTC B4	L	15.67			eMTC B13	L	14.78	
	M	15.76				M	14.89	
	H	16.27	-88.71			H	14.69	-86.95
eMTC B5	L	14.21						
	M	14.18						
	H	13.94	-86.58					

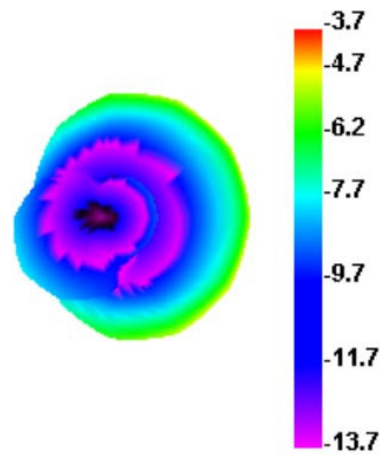
B2



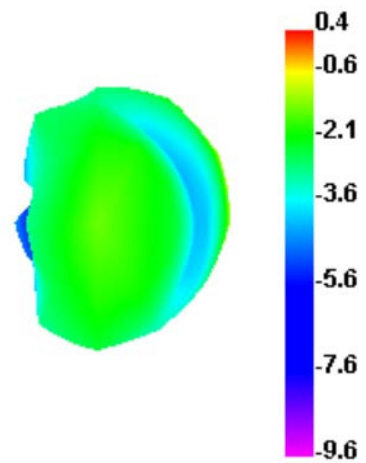
B4



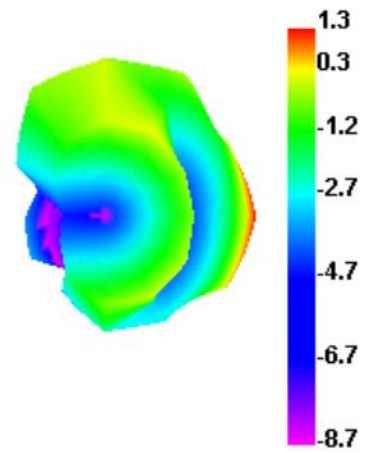
B5



B12



B13



频段frequency	增益Gain(dBi)
B2	-1.25
B4	-0.86
B5	-1.3
B12	-0.93
B13	-0.81