

# M136-IOT RF specification

## Bluetooth PCB printed antenna

Company Name: Shenzhen Omni Intelligent Technology Co.,LTD

Address:11th Floor,Building 31,Phase III,Lianchuang Technology Park,Nanwan Street,Longgang District,Shenzhen,Guang dong,China

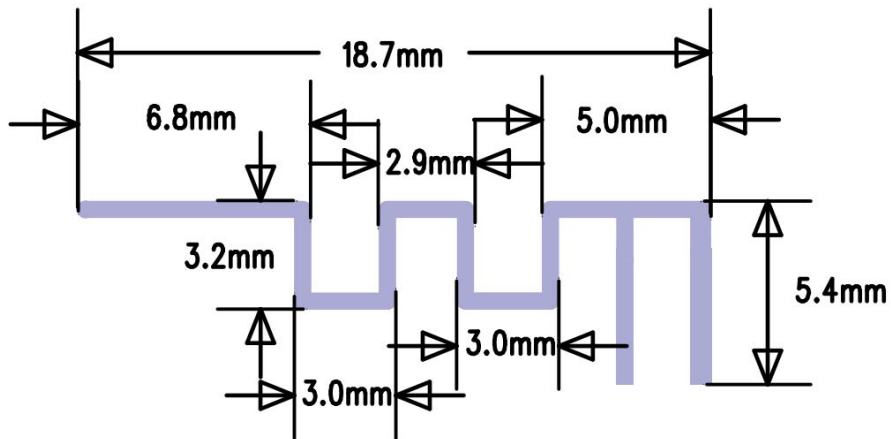
Frequency Range (MHz): 2400-2500

Bandwidth (MHz): 100

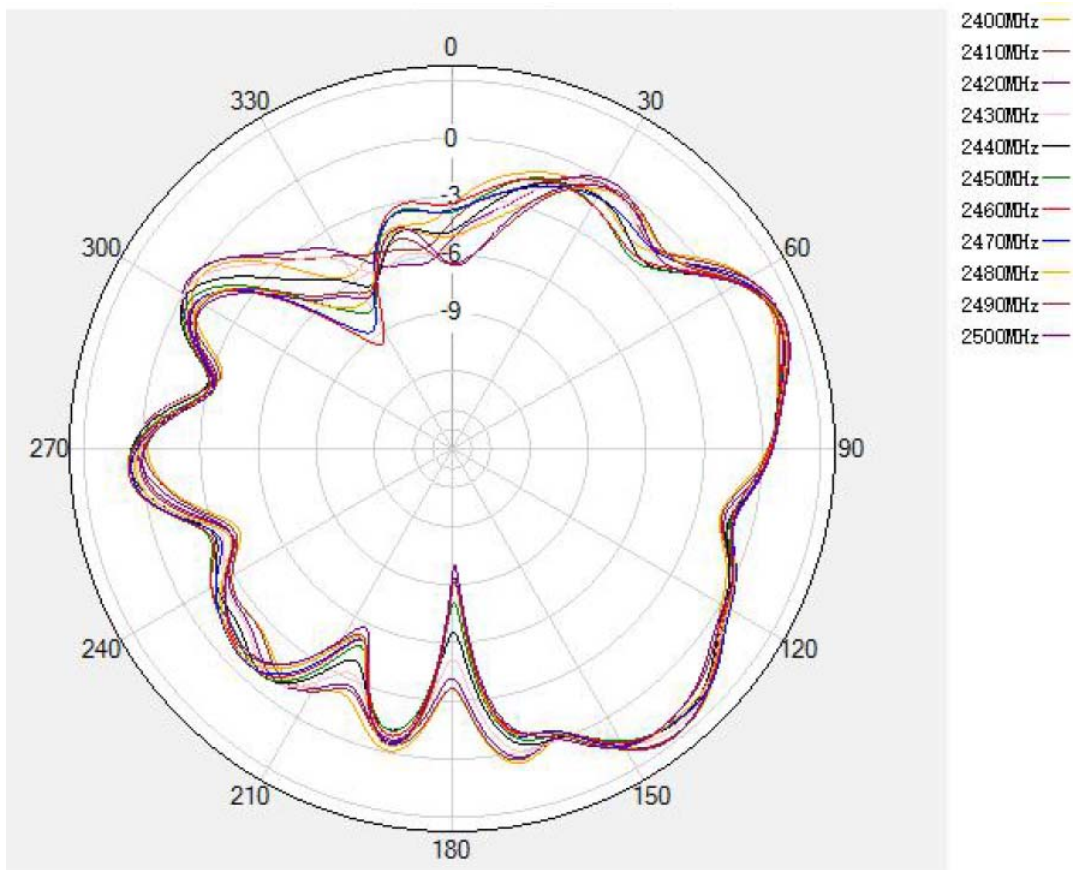
Input Impedence ( $\Omega$ ) : 50

Gain (dBi): 0.58

V.S.W.R: <2



Antenna size chart



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GPS antenna

Company Name: INPAQ TECHNOLOGY CO., LTD.

Address: No.66 ZhengyuanRoad, Tanghui Industrial Zone, Jiaxing, Zhejiang, China

model: PA1590MI4G-289-2ZM

## PA1590MI4G-289-2ZM

### ENGINEERING SPECIFICATION

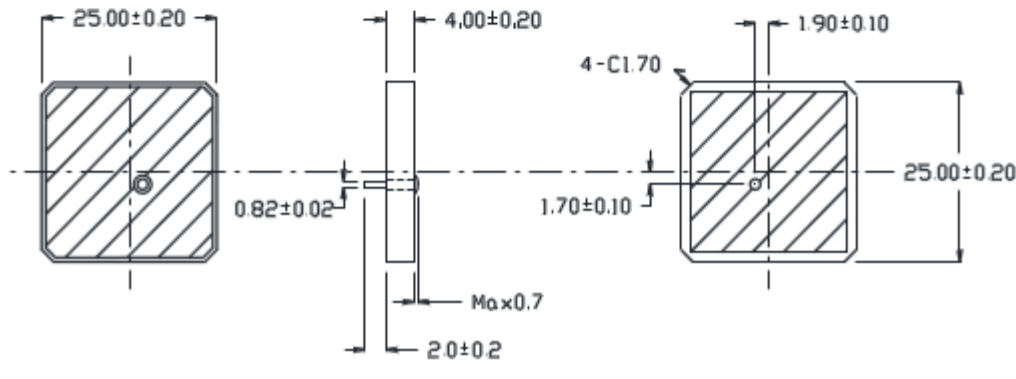
#### 1. Typical Electrical Properties

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

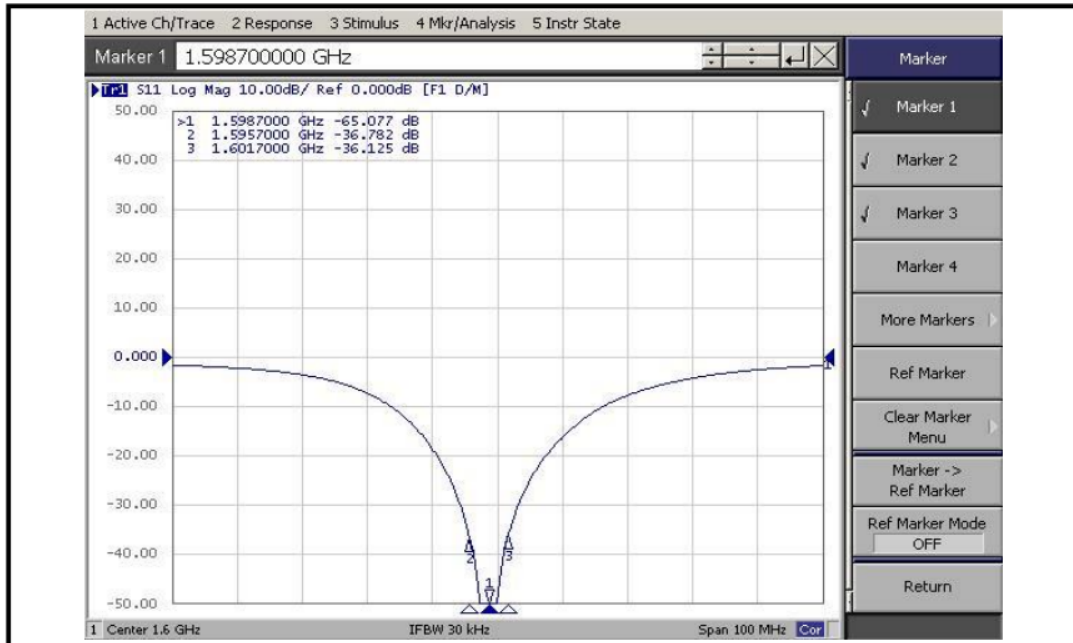
PA1590MI4G-289-2ZM · G: Green parts (RoHS compliance)

-289 are the code of project number, -2ZM show of appendix

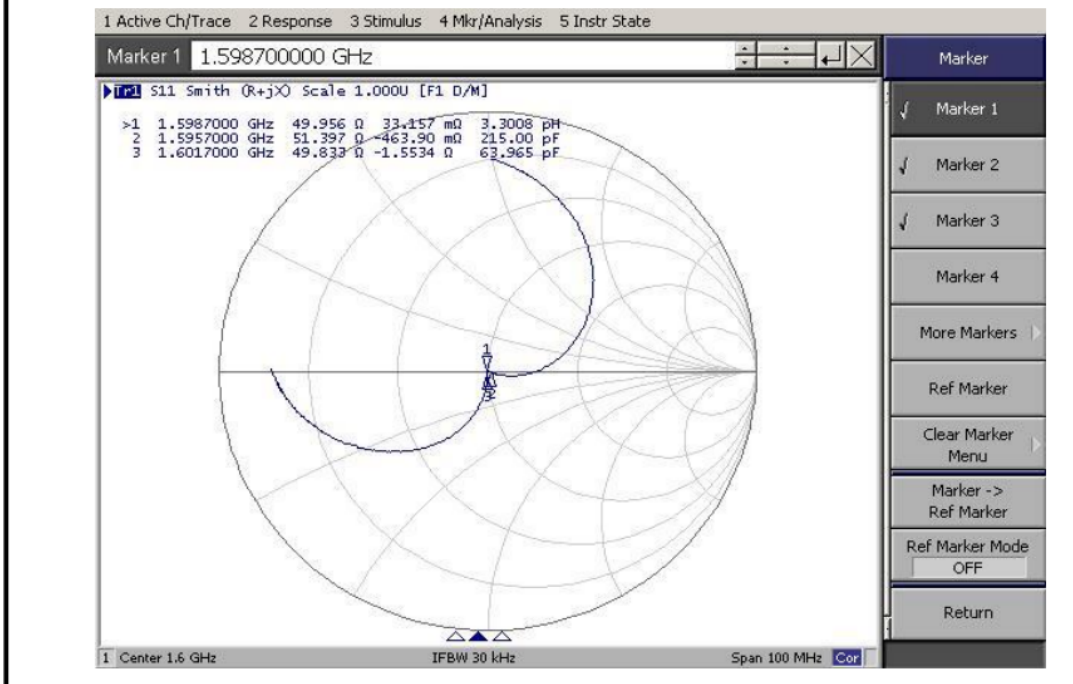
#### 2. Dimension: (Unit: mm)



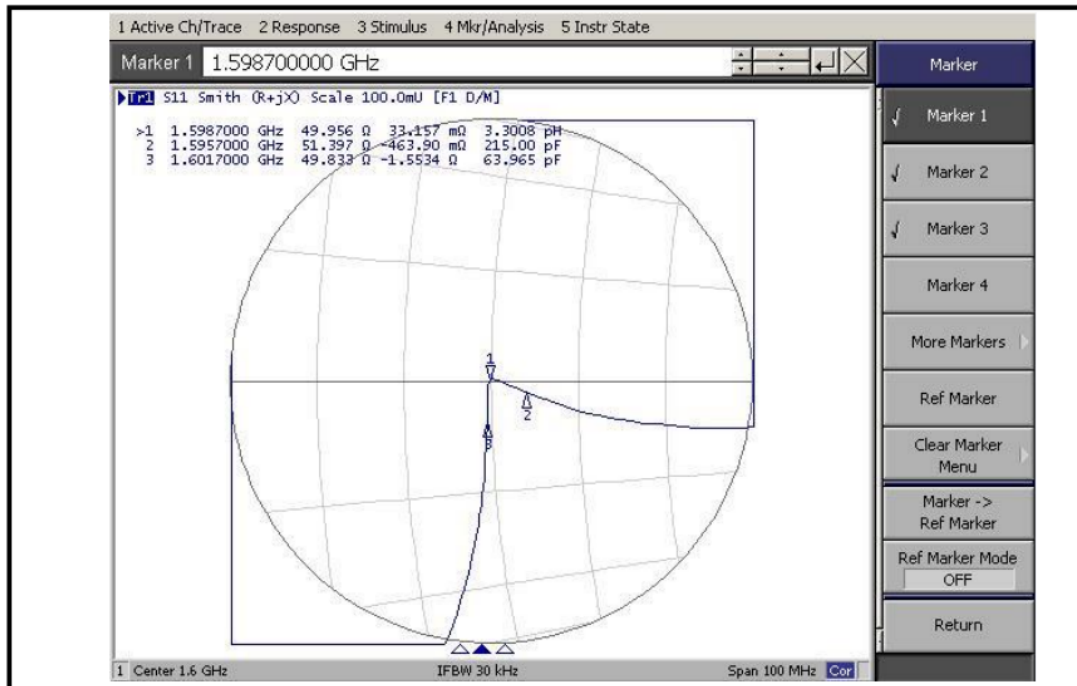
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## 5. Measured Input Impedance on a Smith Chart



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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

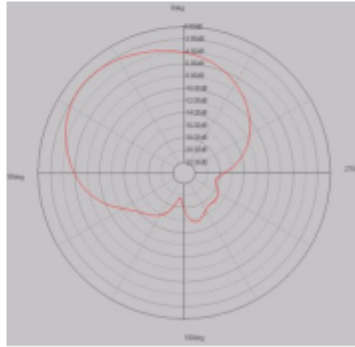
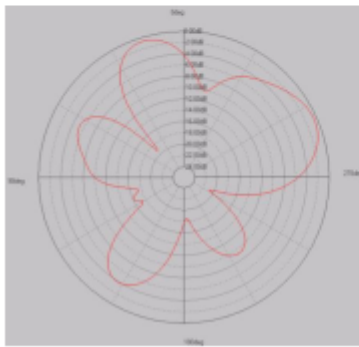
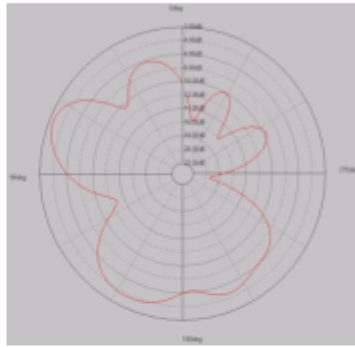
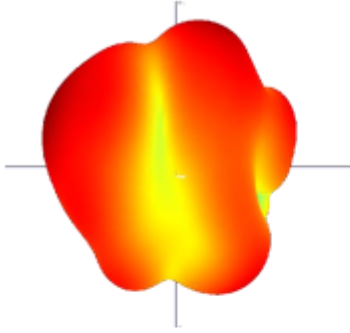
1.3 Release Liner : 0.1mm (typ.) printed paper or paper

1.4 Dimension : mm

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GPS-1575MHz



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Network antenna

Company Name: INPAQ TECHNOLOGY CO., LTD.

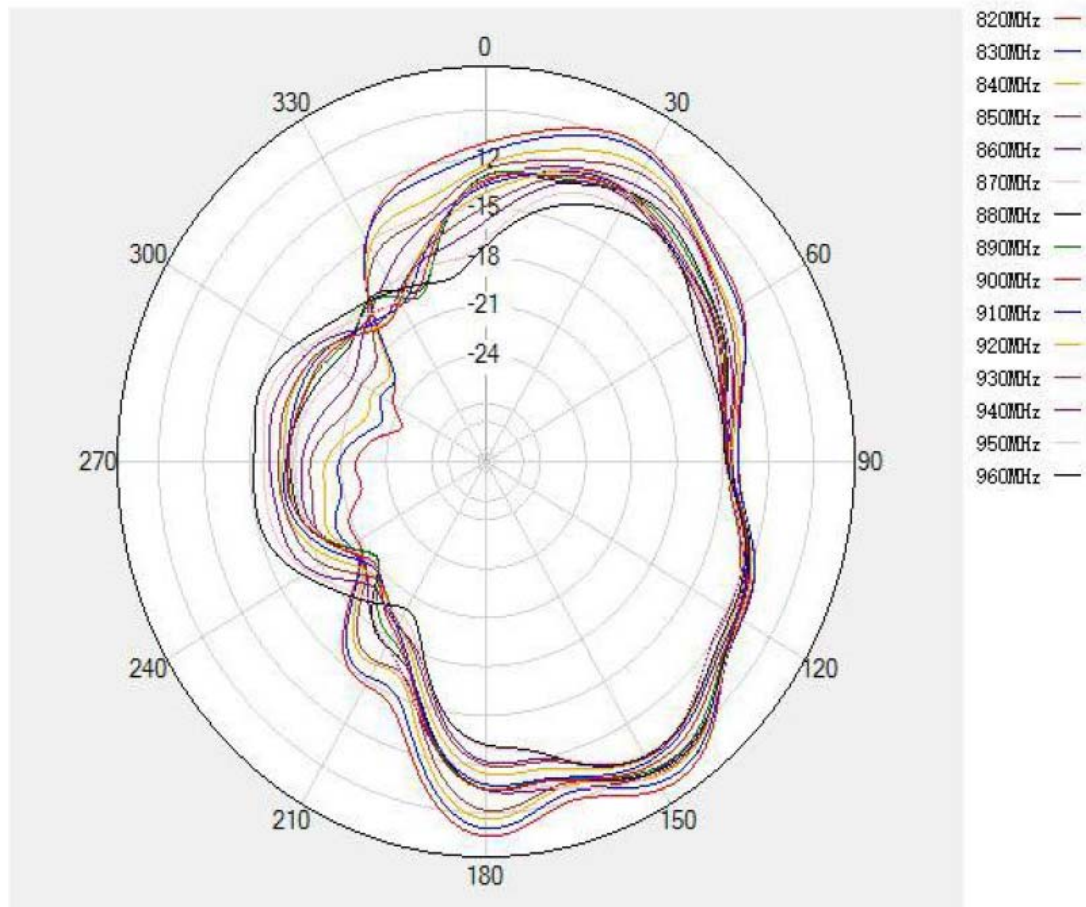
Address: No.66 ZhengyuanRoad, Tanghui Industrial Zone, Jiaxing, Zhejiang, China

model: M-136-7600-E

Antenna Performance Table							
		Channel No.	TRP (dBm)		TIS (dBm)		
WCDMA	W2	L	19.47				
		M	18.85				
		H	18.64		-103.91		
	W5	L	13.46				
		M	14.07				
		H	14.85		-96.57		
LTE	FDD B2	L	19.16				
		M	19.04				
		H	18.32		-91.56		
	FDD B4	L	16.83				
		M	18.65				
		H	18.48		-90.03		
	FDD B12	L	14.62				
		M	14.16				
		H	14.28		-83.42		

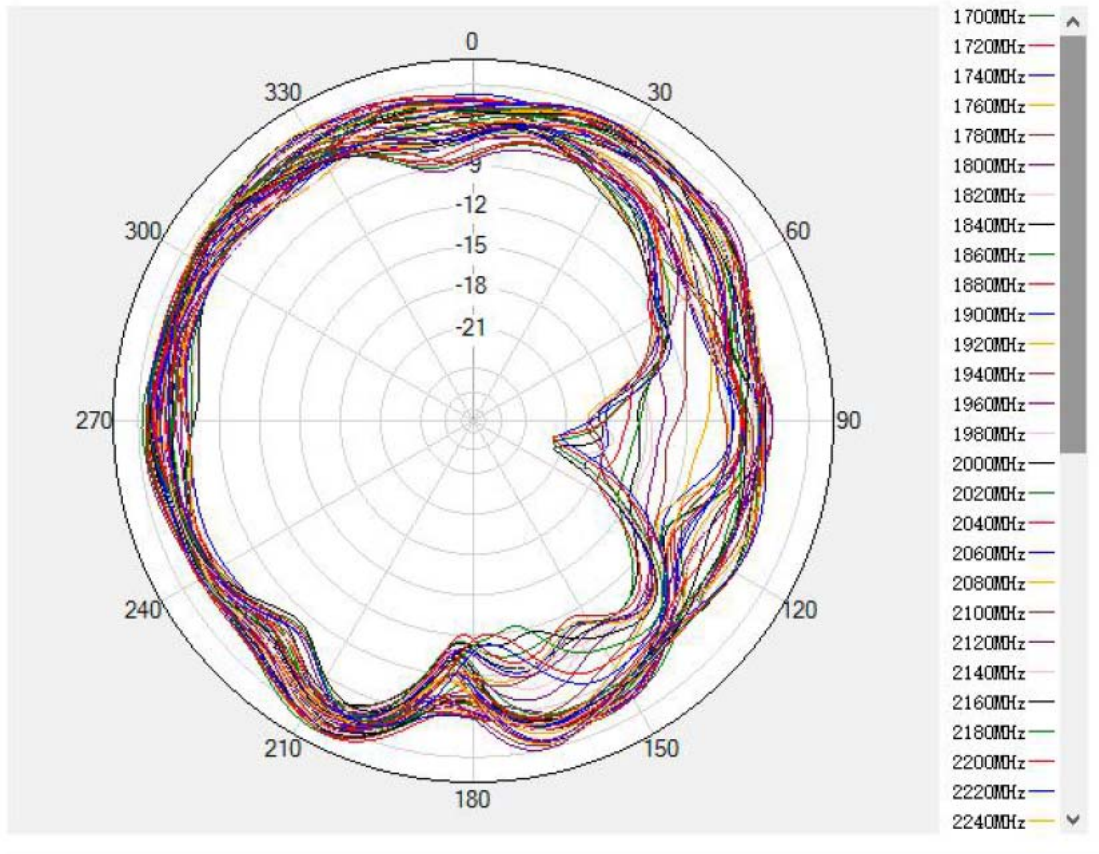
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frequency	Gain(dBi)
W850	-0.87
W1900	-1.25
B2	-1.25
B4	-0.86
B12	-0.72





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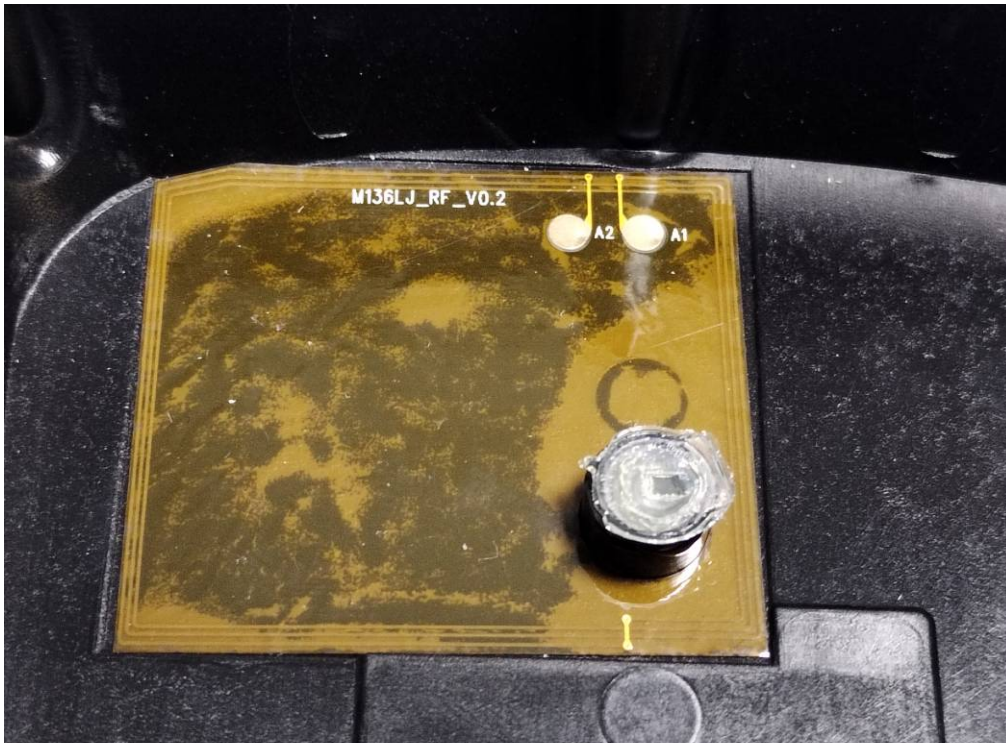




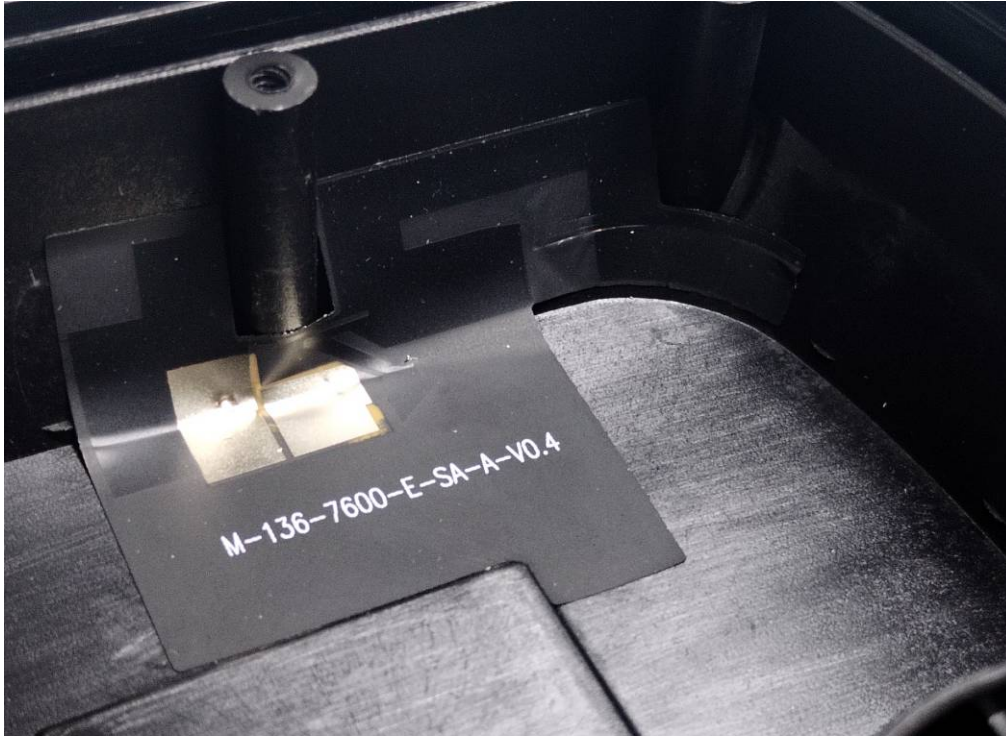
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NFC Antenna



3G/4G Antenna



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BLE Antnea

