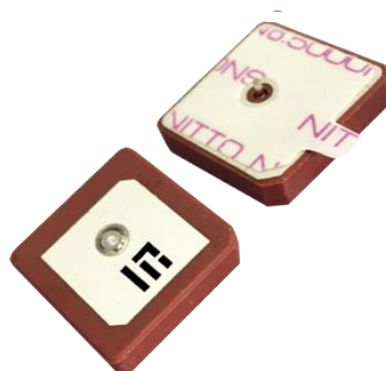


# 18x18x4mm passive ceramic antenna



## Product Description

Part No.	Weight	Dimensions (L x W x H)	Color
M04-0101840R0A	7g	18*18*4mm	brown

## Electrical Characteristics

Antenna		
1	Antenna model	1840A ( 18mm×18mm×4mm )
2	Frequency Range	1575MHz-1582MHz
3	V.S.W.R	2.0 MAX
4	Band With@10dB	1578MHz±4MHz MIN
5	Gain	2.5dB typ @40mm groundplane
6	Impedence	50Ω
7	Polarization	RHCP
8	Frequency Temperature Coefficient max	20 ( ppm/deg. °C )

## Environment Condition

No.	Item	Test Condition	Remark
6.1	Humidity Test	The device is subjected to 90%~95% relative humidity 60°C±3°C for 96h~98h, then dry out at 25°C±5°C and less than 65% relative humidity for 2h~4h. After dry out the device shall satisfy the specification in table 1.	It shall fulfill the specifications in Table 1.
6.2	High Temperature Exposure	The device shall satisfy the specification in table 1 after leaving at 105°C for 96h~98h, provided it would be measured after 2h~4h leaving in 25°C±5°C and less than 65% relative humidity.	It shall fulfill the specifications in Table 1.
6.3	Low Temperature	The device shall satisfy the specification in table 1 after leaving at -40°C for 96h~98h, provided it would be	It shall fulfill the specifications

MyAntenna RF Technology Co., Ltd

ADD: No. RM 405, R3-A Building, Shenzhen High-Tech Park, Nanshan, Shenzhen, P.R. China.

TEL: +86-0755-86503881 FAX: +86-0755-27801677 E-mail: [nfc@myantenna.com](mailto:nfc@myantenna.com)

		measured after 2h~4h leaving in 25°C±5 °C and less than 65% relative humidity.	in Table 1.
6.4	Temperature Cycle	Subject the device to -40°C for 30 min. followed by a high temperature of 105°C for 30 min cycling shall be repeated 5 times. At the room temperature for 1h prior to the measurement.	It shall fulfill the specifications in Table 1.
6.5	Vibration	Subject the device to vibration for 2h each in x、 y and z axis with the amplitude of 1.5mm, the frequency shall be varied uniformly between the limits of 10Hz~55Hz.	It shall fulfill the specifications in Table 1.
6.6	Soldering Test	Lead terminals are heated up to 350°C±10°C for 5s±0.5 s with brand iron and then element shall be measured after being placed in natural conditions for 1 h. No visible damage and it shall fulfill the specifications in Table 1	It shall fulfill the specifications in Table 1.
6.7	Solder ability	Lead terminals are immersed in soldering bath of 260°C~290°C for 3s±0.5s . More than 95% of the terminal surface of the device shall be covered with fresh solder.	The terminals shall be at least 95% covered by solder.
6.8	Terminal Pressure Strength	Force of 2kg is applied to each lead in axial direction for 10s±1 s (see drawing). No visible damage and it shall fulfill the specifications in Fig 1	Mechanical damage such as breaks shall not occur.

FIG 1

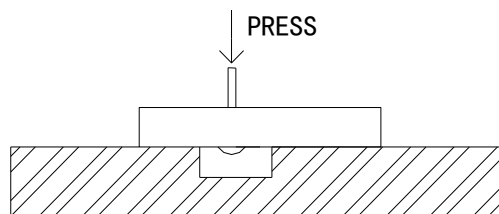


TABLE 1

Item	Specification After Test (MHz)
Center Frequency change	±2.0
-10dB Bandwidth Change	±2.0

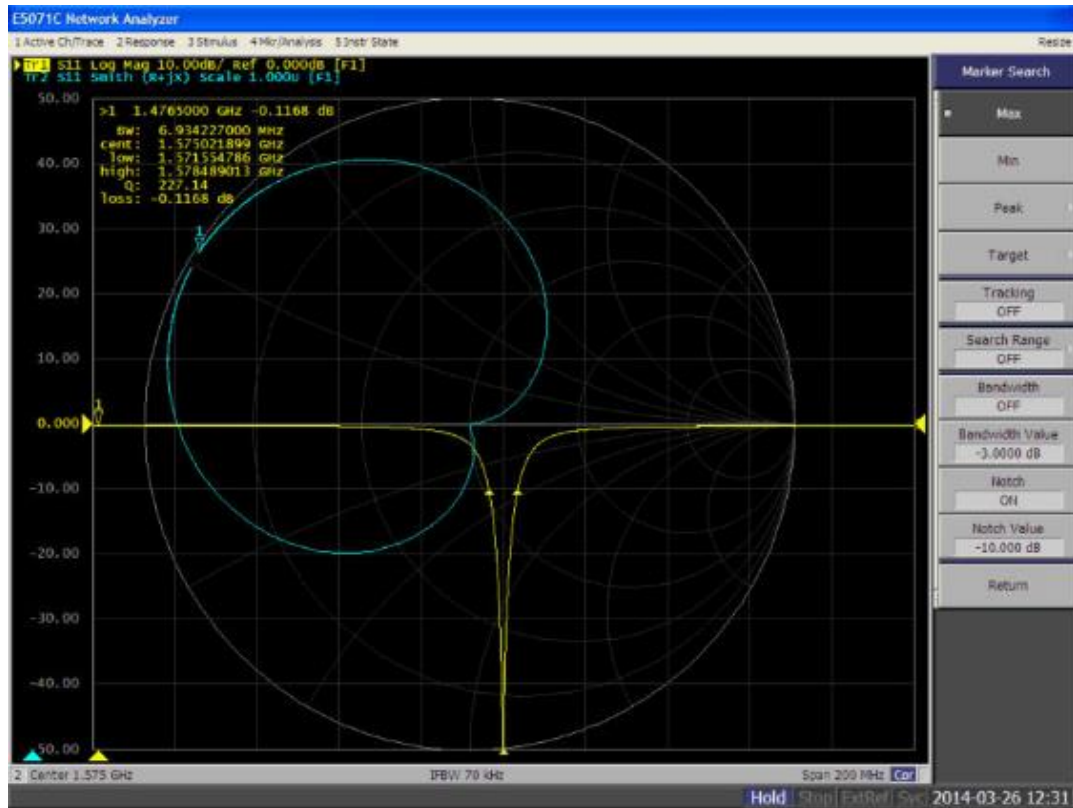
## TEST

### 1、 Test Conditions

Parts shall be measured under a condition (Temp.:20°C±15°C, Humidity : 65%±20% R.H.).

### 2、 Test fixture

Groundplane size:  $\Phi$ 80mm



## Note

- 1、 This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
- 2、 The product will get free warranty for three months since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
- 3、 Electrostatic sensitive device. Observe precautions for handling.

HOUSING CONFIGURATIONS

