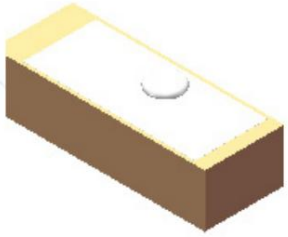
16x6x4mm passive ceramic antenna



Product Description

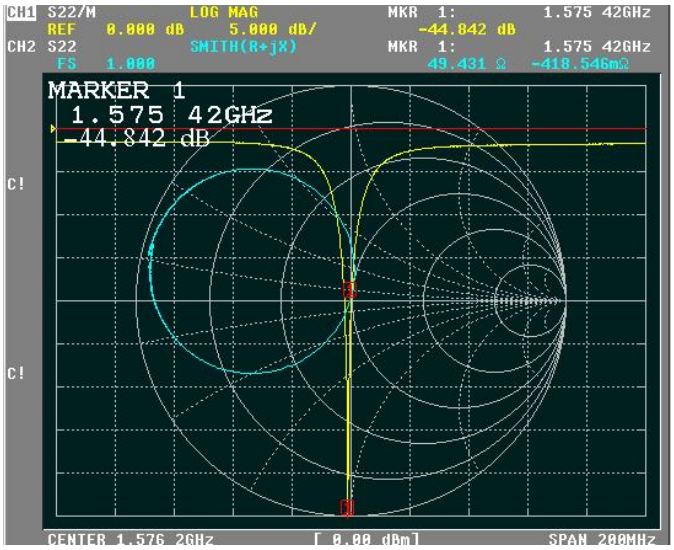
Part No.	Weight	Dimensions (L x W x H)	Color
M04-0103010R0A	3g	16*6*4mm	brown

Performance Characteristics

Items	Content
Nominal frequency MHz	1575.42±1.023
*Center frequency MHz (on13mm*13mm ground Plane)	1592±2.0
Real Part Ω	50±10
Imaginary Part Ω	0±10
Polarization Model	Linear
Frequency Temperature Coefficient	20ppm/deg.℃ max

* Center frequency :-10dB bandwidth center frequency. depend on the ground plane of customers.

Return loss Characteristic



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Environment Condition

No.	Item	Test Condition	Remark
1	Humidity Test	The device is subjected to 90%~95% relative humidity 60℃±3℃ for 96h~98h,then dry out at 25℃±5℃ 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.
2	High Temperature Exposure	The device shall satisfy the specification in table 1 after leaving at 105℃ for 96h~98h,provided it would be measured after 2h~4h leaving in 25℃±5 ℃ and less than 65% relative humidity.	It shall fulfill the specifications in Table 1.
3	Low Temperature	The device shall satisfy the specification in table 1 after leaving at -40℃ for 96h~98h,provided it would be measured after 2h~4h leaving in 25℃±5 ℃ and less than 65% relative humidity.	It shall fulfill the specifications in Table 1.
4	Temperature Cycle	Subject the device to -40℃ for 30 min. followed by a high temperature of 105℃ 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.
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	Soldering Test	Lead terminals are heated up to 350℃±10℃ 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.
7	Solder ability	Lead terminals are immersed in soldering bath of 260℃~290℃ 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.
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

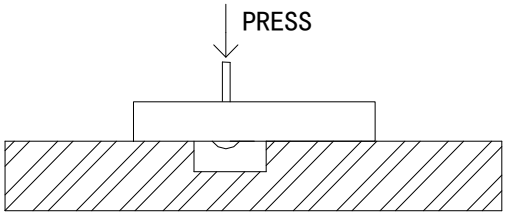


TABLE 1

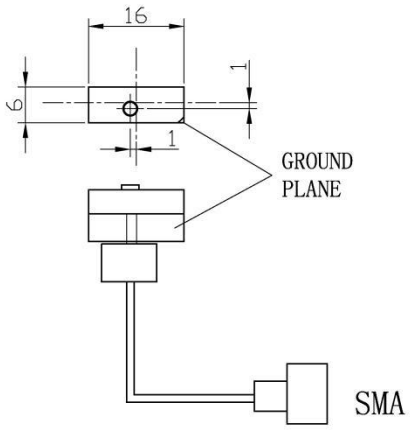
Item	Specification After Test (MHz)
Center Frequency change	±2.0
-10dB Bandwidth Change	±2.0

TEST

1、 Test Conditions

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

2、 Test fixture



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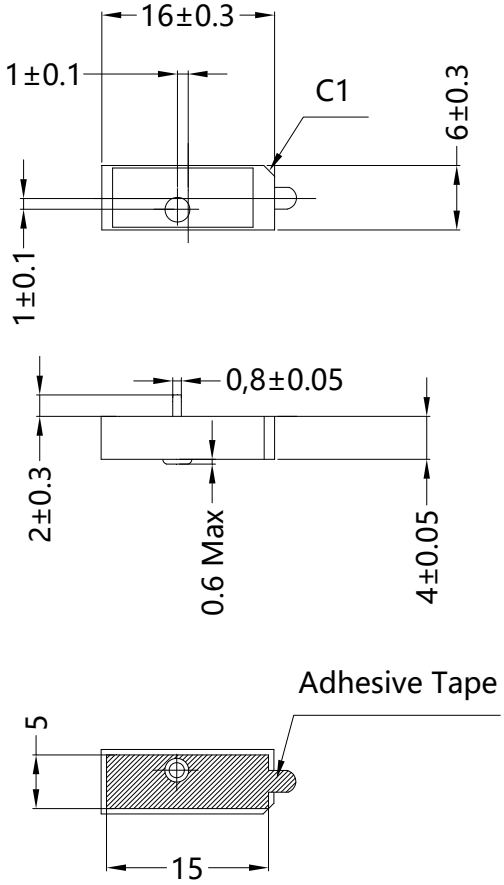
HOUSING CONFIGURATIONS



There is no need to remove the copper skin from the bottom of the antenna

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