



GLOBAL EAST ASIA TECHNOLOGY CO.,LIMITED

Product Name: Ceramic Antenna

product model: GL1621R2540ABDB1-T

1 SCOPE

This specification shall cover the characteristics of the dielectric antenna element with the type GL1621R2540ABDB1-T.

2 PART NO.

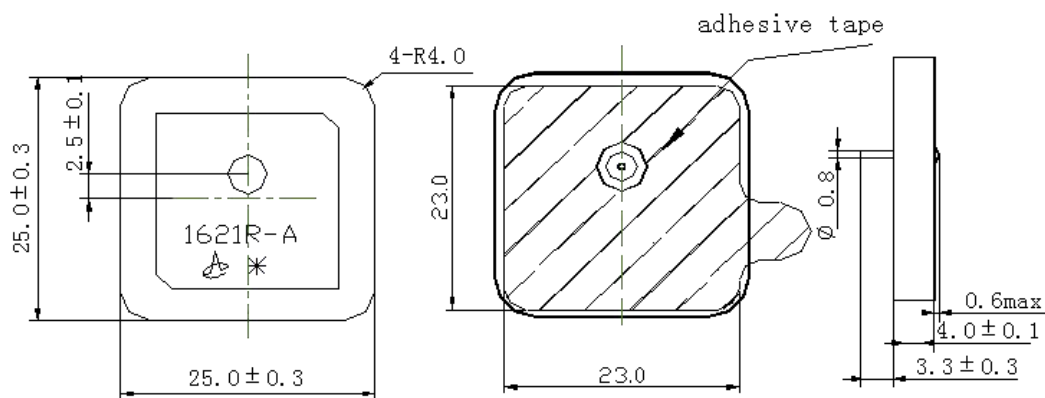
PART NUMBER	CUSTOMER PART NO	SPECIFICATION NO
GL1621R2540ABDB1-T		

3. OUTLINE DRAWING AND DIMENSIONS

3.1 Appearance: No visible damage and dirt.

3.2 The products conform to the ROHS directive and national environment protection law.

3.3 Dimensions



*: EIAJ Monthly Code



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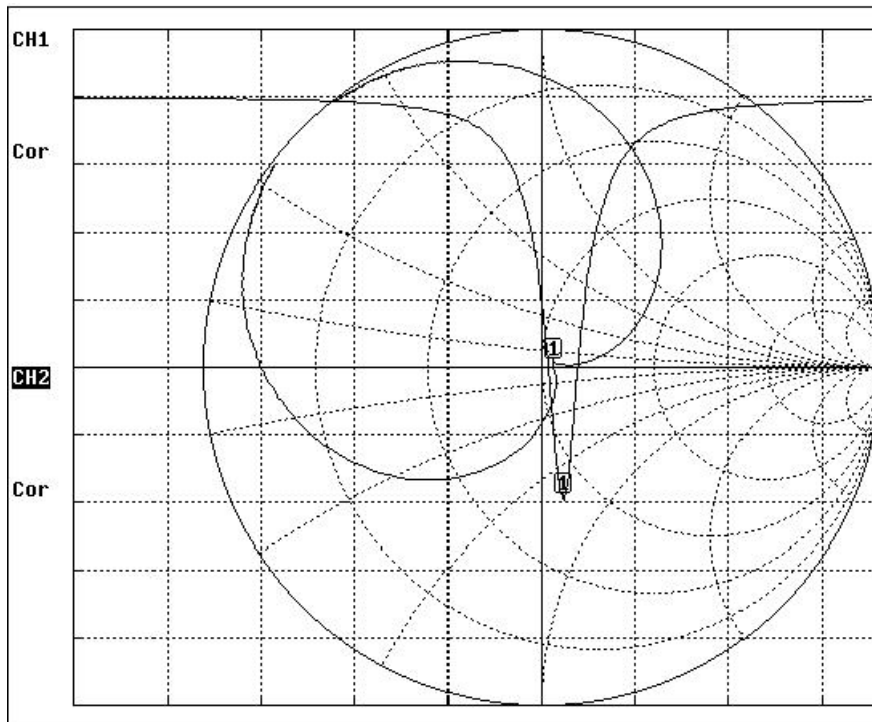
4 ELECTRICAL SPECIFICATIONS

4.1 Performance Characteristics

Items	Content
Nominal frequency MHz	1621.5±5.5
Center frequency MHz (without tape on 70×70mm ground plane)	1623±3.0
-10dB Bandwidth MHz min	17
Return Loss at Center Frequency dB max	-15
Polarization Model	RHCP
Impedance Ω	50
Frequency Temperature Coefficient	20ppm/deg. °C max

* Center frequency :-10dB bandwidth center frequency.

4.2 Impedance Characteristic





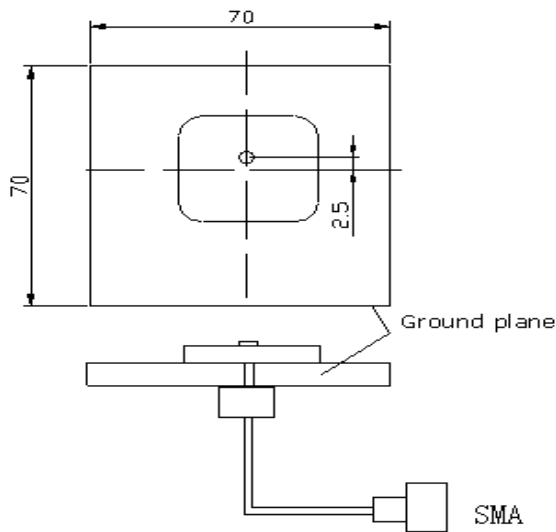
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5 TEST

5.1 Test Conditions

Parts shall be measured under a condition (Temp.: $20^{\circ}\text{C}\pm 15^{\circ}\text{C}$, Humidity :
 $65\%\pm 20\%$ R.H.).

5.2 Test Jig





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6. ENVIRONMENTAL TEST

No.	Item	Test Condition	Remark
6.1	Humidity Test	The device is subjected to 90%~95% relative humidity $60^{\circ}\text{C}\pm 3^{\circ}\text{C}$ for 96h~98h, then dry out at $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 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 $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ 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 measured after 2h~4h leaving in $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ and less than 65% relative humidity.	It shall fulfill the specifications 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 $350^{\circ}\text{C}\pm 10^{\circ}\text{C}$ for $5\text{s}\pm 0.5\text{s}$ 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 $260^{\circ}\text{C}\sim 290^{\circ}\text{C}$ for $3\text{s}\pm 0.5\text{s}$. 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 $10\text{s}\pm 1\text{s}$ (see drawing). No visible damage and it shall fulfill the specifications in Fig 1	Mechanical damage such as breaks shall not occur.



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