SPECIFICATION

OF PRODUCTS

CUSTOMER	:	MICROS
PRODUCT NAME	Ξ:	DIELECTRIC ANTENNA ELEMENT
PART NUMBER	:	DAE1575.42R2540A
CUSTOMER P/N	:	ANT1575-2540A

Approved by	Checked by	Drawn by

Approval Sheet		
Customer	MICROS	
Supplier P/N	DAE1575.42R2540A	
Customer P/N	ANT1575-2540A	

Custome	Customer's Approval Certificate	
Checked & Approval by		
Date		

Please return this copy as a certification of your approval.

1 SCOPE

This specification shall cover the characteristics of the dielectric antenna element with the type DAE1575.42R2540A.

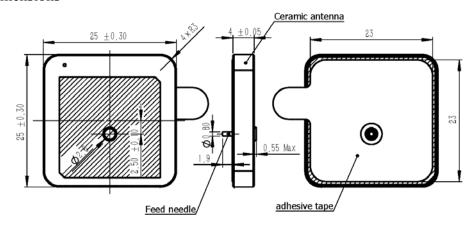
2 PART NO.

PART NUMBER	CUSTOMER PART NO	SPECIFICATION NO
DAE1575.42R2540A	ANT1575-2540A	

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

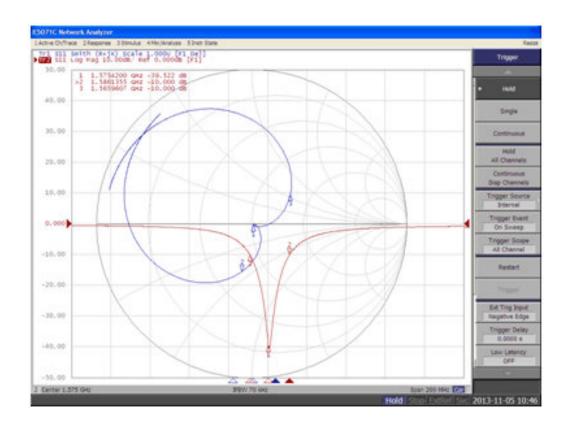


4 ELECTRICAL SPECIFICATIONS

4.1 Performance Characteristics

Items	Content	
Nominal frequency	1575.42 ± 2 (MHz)	
Center frequency (with adhesive tape on 22 square ground Plane)	1575.42±3 (MHz)	
-10dB Bandwidth min	10 (MHz)	
VSWR at CF max	1.5	
Polarization Model	RHCP	
Impedance	50 (Ω)	
Frequency Temperature Coefficient max	20 (ppm/deg.℃)	

4.2 Impedance Characteristic

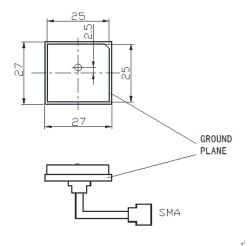


5 TEST

5.1 Test Conditions

Parts shall be measured under a condition (Temp.:20 $^{\circ}\text{C}\pm15\,^{\circ}\text{C}$, Humidity : 65%±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 °C \pm 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 $105^{\circ}\!$	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 °C \pm 5 °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 $x \cdot y$ and z axis with the amplitude of 1.5mm, the frequency shall be varied uniformly between the limits of $10\text{Hz}\sim55\text{Hz}$.	It shall fulfill the specifications in Table 1.
6.6	Soldering Test	Lead terminals are heated up to $350^\circ\!\!\!\mathrm{C} \pm 10^\circ\!\!\!\mathrm{C}$ for $5s\pm 0.5$ 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 $260^{\circ}\!$	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 $10s\pm1$ s (see drawing). No visible damage and it shall fulfill the specifications in Fig 1	Mechanical damage such as breaks shall not occur.

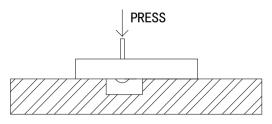


TABLE 1

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