

GPS/GLONASS/Beidou Ceramic Patch Antenna



APARM1804-SG3



18.0 x 18.0 x 4.0 mm
RoHS/RoHS II Compliant
MSL = N/A

Features

- Multiband GPS/GLONASS/Beidou/GNSS patch
- Low VSWR of 1.8
- Gain of 3.0/2.0/4.0 dBi
- RHCP polarization
- 18.0 x 18.0 x 4.0 mm

Applications

- GPS/GLONASS/Galileo/Beidou applications
- IoT
- M2M
- Remote technology monitoring
- Geofencing
- Surveying and mapping systems
- Logistics

Electrical Characteristics

Item	Spec*/**			Comments
Receiving Frequencies (MHz)	1561.098±2.046	1575.42±1.023	1602±5.0	BeiDou / GPS and GLONASS
Center Frequency	1586MHz ±3.0MHz			With 79.1×44.6 mm GND Plane
VSWR	1.8 : 1 max			At Center Frequency
Bandwidth	26MHz			Return Loss @ -10dB
Gain @ Zenith (dBi) Typical	+3.0 dBi	+2.0 dBi	+4.0 dBi	
Impedance	50 Ω			
Operating Temperature	-40°C ~ 105°C			
Frequency Temperature Coefficient	-40°C ~ 105°C			0±20ppm / °C

** The antenna has the electrical characteristics given in the tables in the temperature range of -40°C to +105°C and under the environmental conditions of +40°C and 0-95%r.h.

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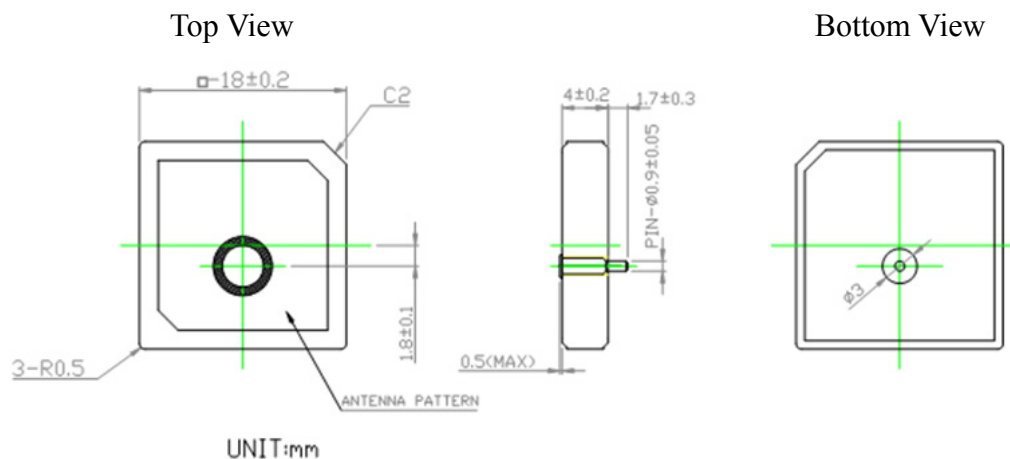


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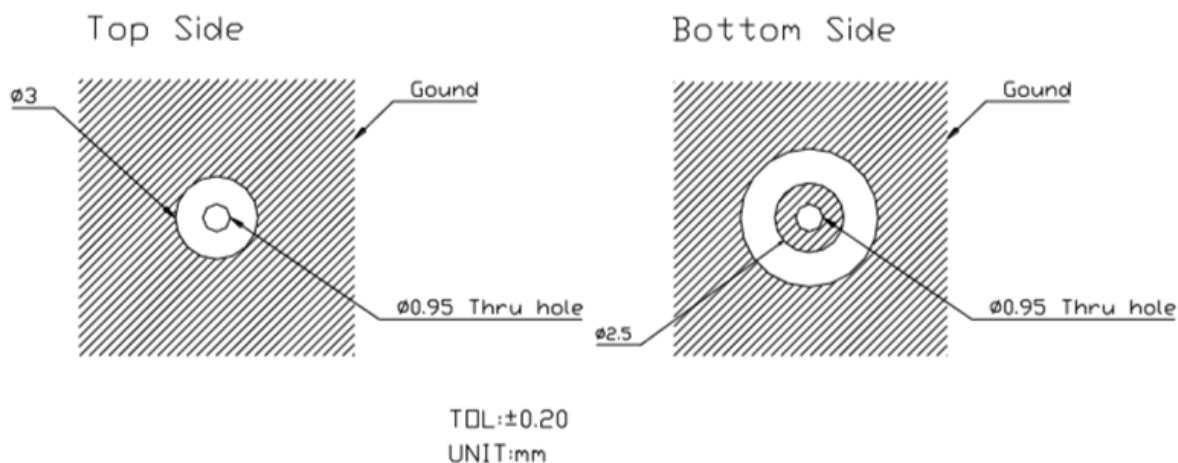


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Outline Dimensions



Layout Dimensions



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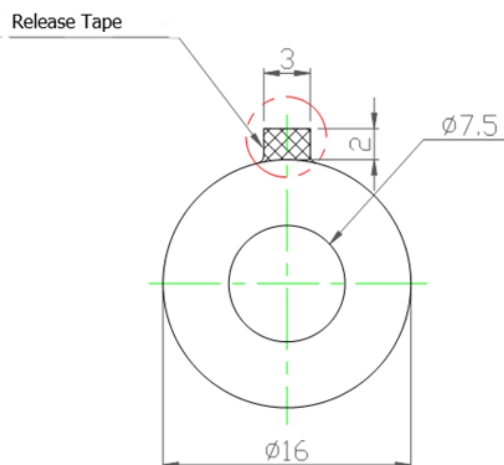


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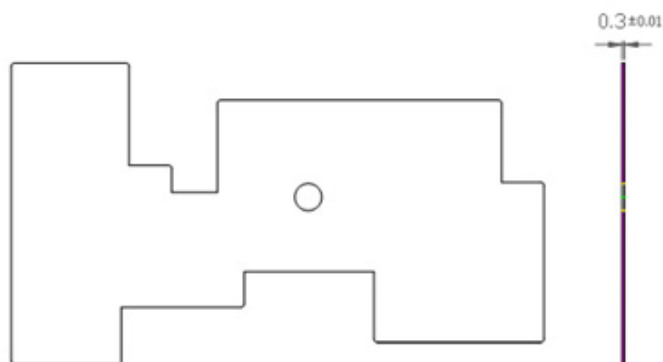
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Tape Dimensions

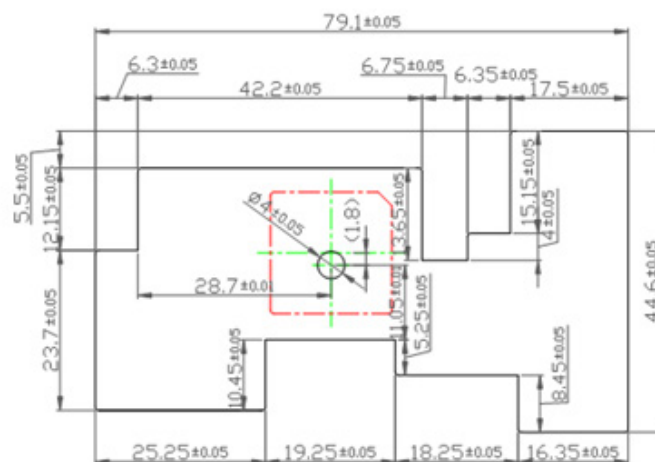


Dimensions (mm), Tol 0.2 mm

Fixture Dimensions



Bottom side



Top side

Dimensions (mm)

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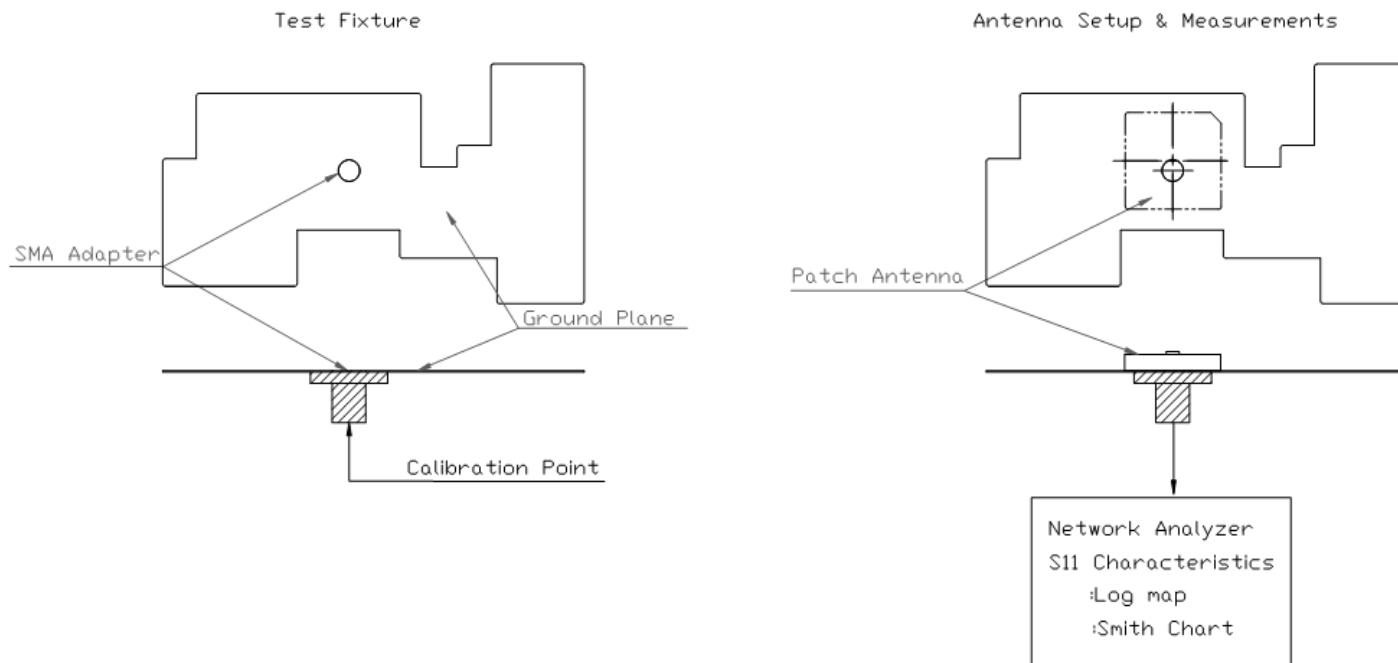


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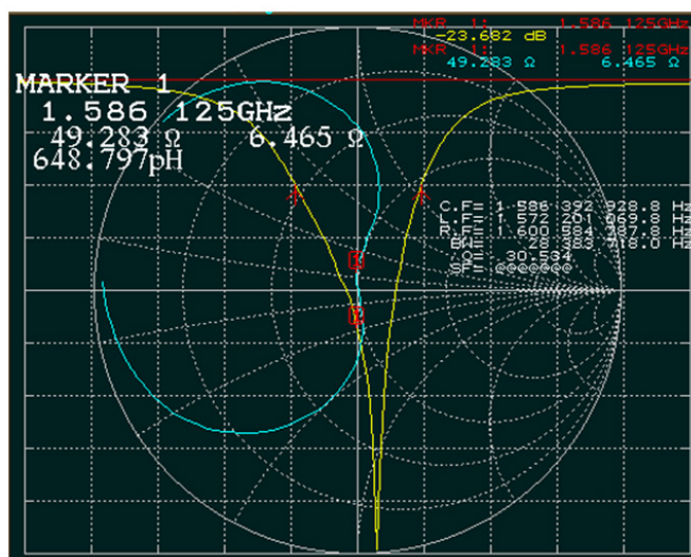
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Test Fixture Antenna Set-Up and Measurements



Antenna Response

Return Loss, SWR, Impedance, measured on the test fixture, at 25°C



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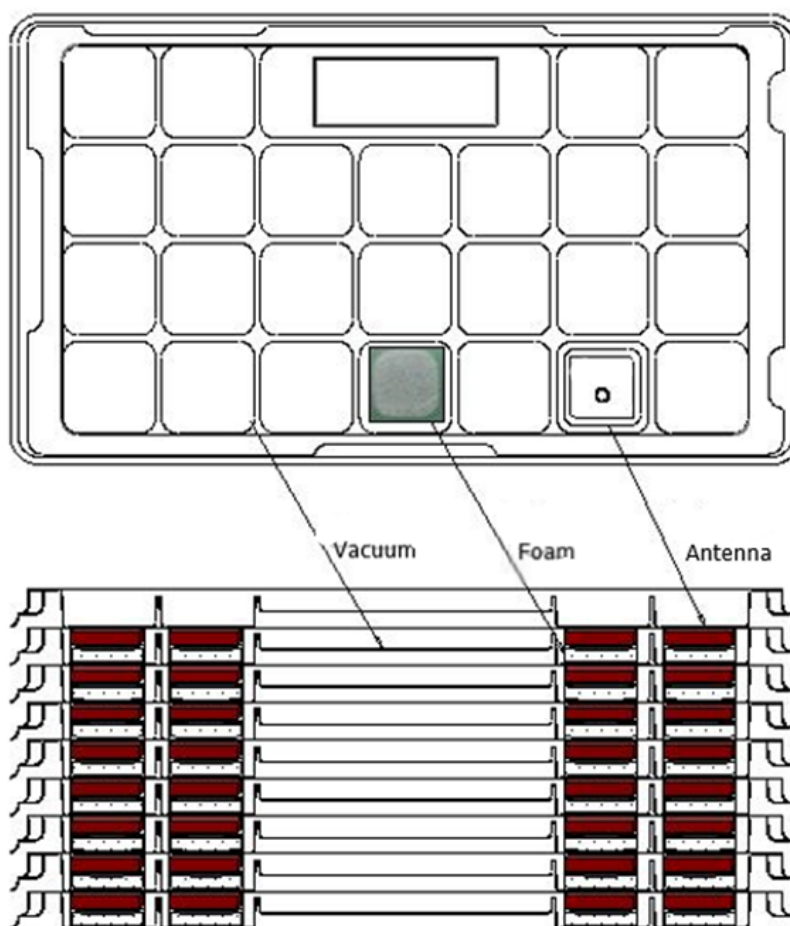
Soldering - Feed Pin Temperature - Range

Feed pin temperature range Maximum temperature for soldering of feed pin is +290°C for 3 second

Packaging

DA Tray Packaging

Tray: 25pcs per Tray



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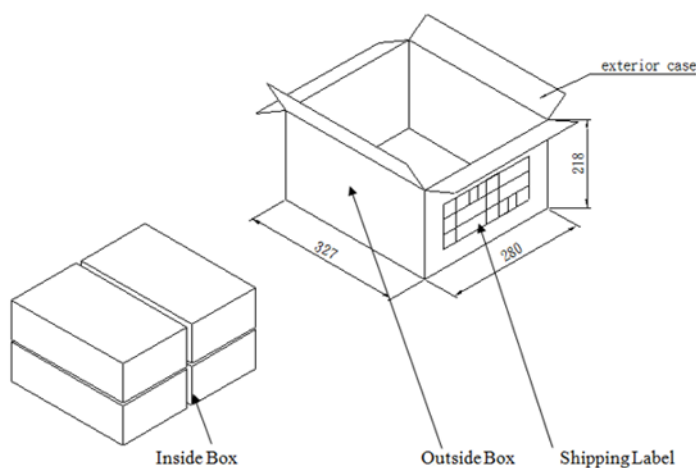
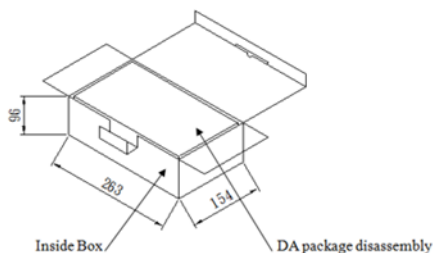
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Carton Packaging

Inner Box: 200pcs (8 Trays x 25pcs)



Outer Box : 800pcs (4 inner box x 200pcs)

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