

APARM3503-SG3



35.0 x 35.0 x 3.0 mm RoHS/RoHS II Compliant MSL = N/A

Features

- Multiband GPS/GLONASS/Beidou/GNSS patch
- Low VSWR of 1.8
- Gain of 4.0/3.0/4.5 dBi
- RHCP polarization
- 35.0 x 35.0 x 3.0 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	1598MHz ±6.0MHz			With 93.97×61.87mm GND Plane
VSWR	1.8 :1 max			At Center Frequency
Bandwidth	35MHz			Return Loss @ -10dB
Gain @ Zenith (dBi) Typical	+4.0 dBi	+3.0 dBi	+4.5 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 Table in the temperature range of -40° C to $+105^{\circ}$ C and under the environmental conditions of $+40^{\circ}$ C and $0-95^{\circ}$ r.h.





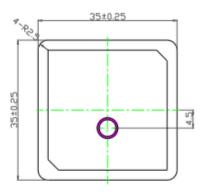
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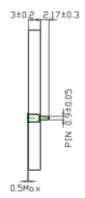


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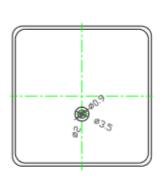
Outline Dimensions

Top View





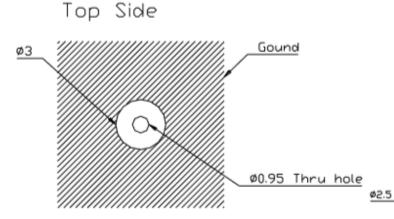
Bottom View

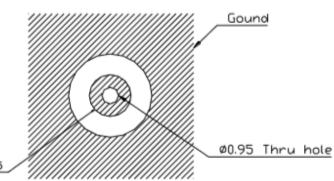


Bottom Side

Dimensions (mm)

Layout Dimensions





TDL:±0.20 UNIT:mm



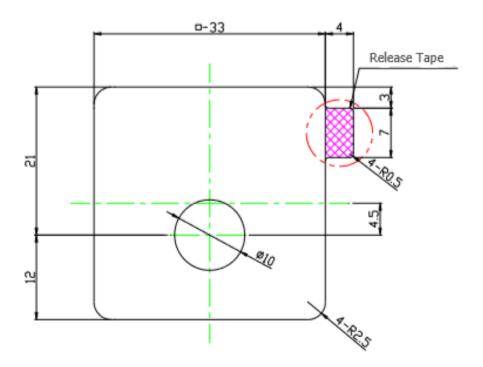


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Tape Dimensions



Dimensions (mm)

Tape: Double coated adhesive tape for industrial use, thickness 0.12mm



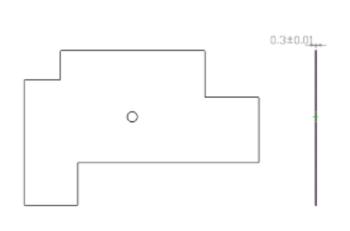


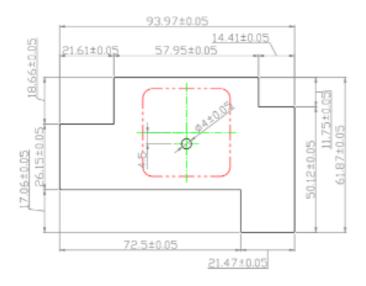
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Fixture Dimensions

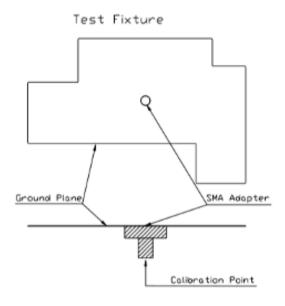


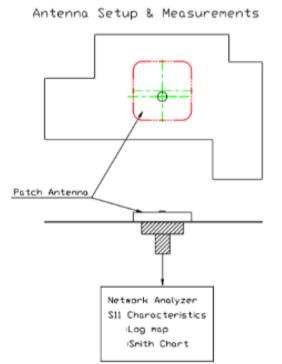


Bottom side Top side

Dimensions (mm)

Test Fixture Antenna Set-Up and Measurements







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REVISED: 11.12.2018

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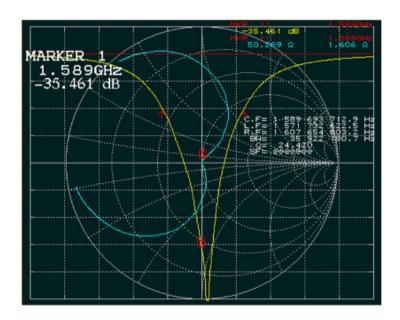


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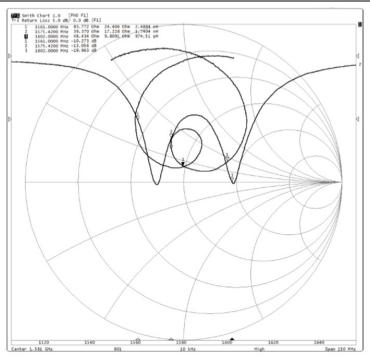
Pb

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Antenna Response – Return Loss S11



Antenna Response - Smith Chart



Ground Plane 70 x 70 mm



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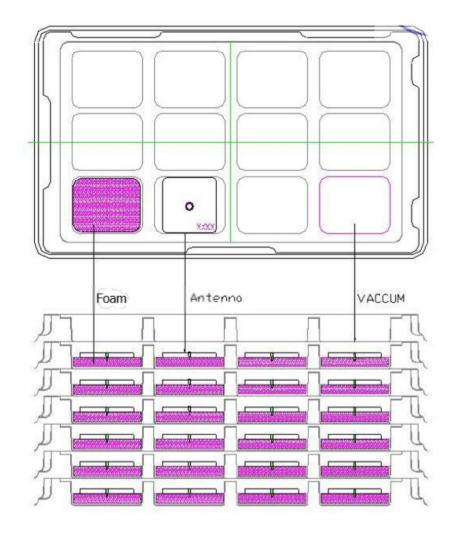
Soldering - Feed Pin Temperature - Range

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

Packaging

DA Tray Packaging

Tray: 12pcs per Tray







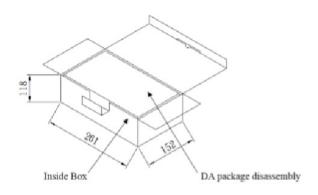
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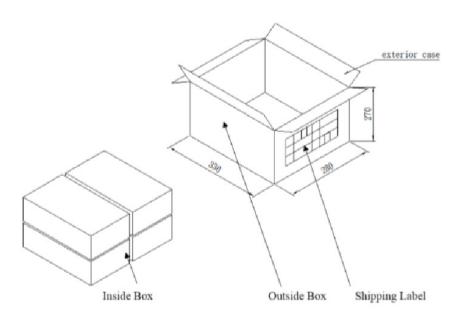


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Carton Packaging

Inner Box: 72pcs (6 trays x 12pcs)





Outer Box: 288pcs (4 inner boxes x 72pcs)

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