



Part No. 1002649 GPS/GLONASS/Beidou/Galileo Patch Dual Feed Antenna

1.575 GHz, 1.598 GHz, 1.606 GHz

Supports: Tracking, Smart Home, Agriculture, Automotive, Healthcare, Digital Signage, Wearables, Industrial Devices



GPS / GLONASS / Beidou / Galileo Dual Feed Patch Antenna

1.575 GHz, 1.598 GHz, 1.606 GHz

Ethertronics' antennas deliver on the key needs of device designers for higher functionality and performance in smaller/thinner designs. These innovative antennas provide compelling advantages for a GNSS enabled handheld devices, media players and other mobile devices.

Electrical Specifications

Typical characteristics, measured on a 70 x 70 mm PCB ground plane.

	Frequency (GHz)	1.559 – 1.563	1.575	1.559 – 1.591	1.593 – 1.610	
	GNSS Bands	Beidou	GPS	Galileo	Glonass	
	Peak Gain (dBi)	5	5.5	5.5	5.5	
	Center Frequency f _o (GHz)	1.561	1.575	1.575	1.603	
l	Average Return Loss	< -15				
l	Axial Ratio	1 dB				
	Feed Point Impedance	50 Ω unbalanced				

Mechanical Specifications & Ordering Part Number

Ordering Part Number	1002649		
Size (mm)	25.0 x 25.0 x 6.7		
Mounting (mm)	Adhesive (Nitto 5000NS 22 x 22 x 0.16) & 2 through-hole Soldered Pins		
Weight (grams)	14.3		
Packaging	Plastic Tray		

KEY BENEFITS

Reduced Costs and

Time-to-Market

Standard antenna eliminates design fees and cycle time associated with a custom solution; getting products to market faster.

Quicker Time-to-Market

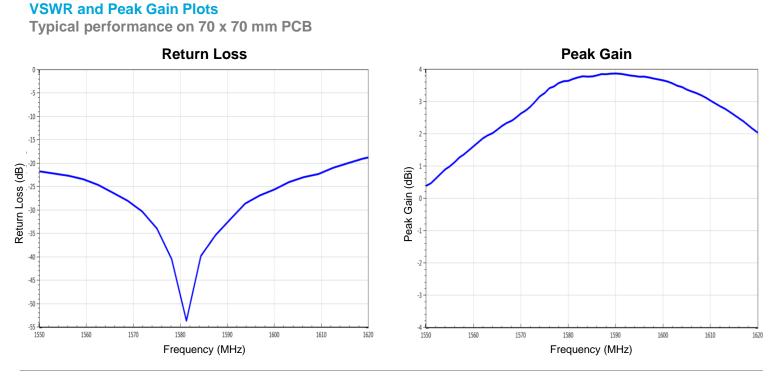
By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met. Reliability

Products are the latest RoHS version compliant.

APPLICATIONS

Embedded • Telematics Tracking design Healthcare POS. Headsets, • M2M. Tablets Industrial devices Gateway, Access Smart Grid Point OBD-II Handheld

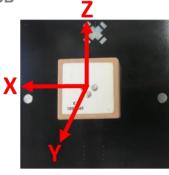


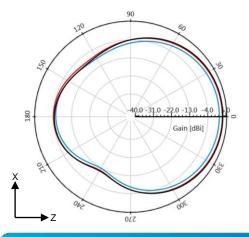


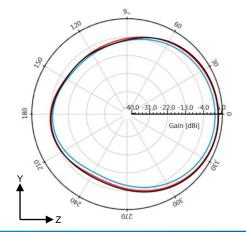
Antenna Radiation Patterns

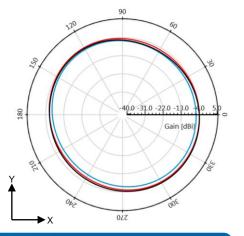
Typical performance on 70 x 70 mm PCB Measured @ 1561, 1575, 1603 MHz











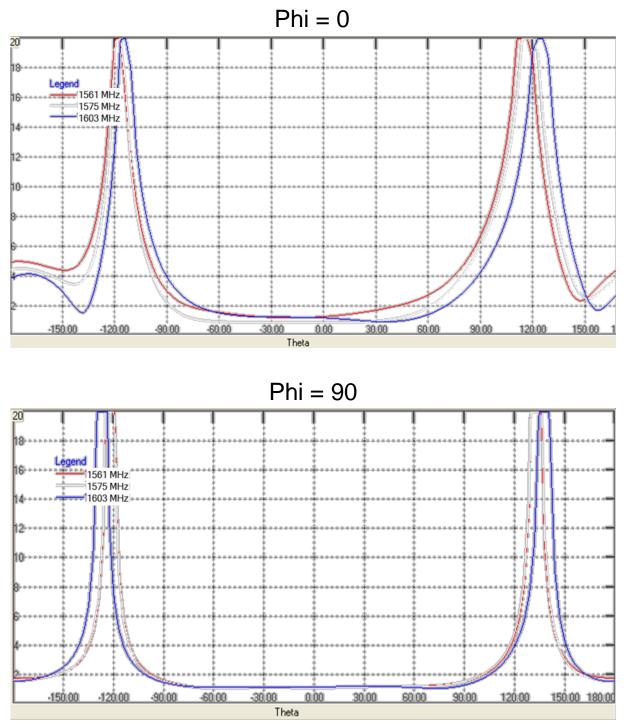
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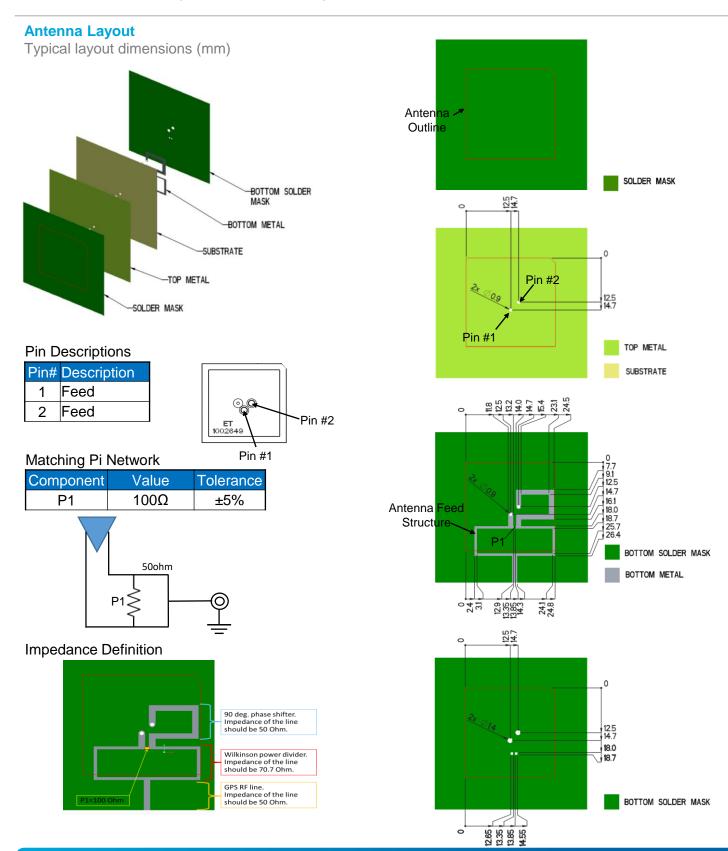


Axial Ratio Plots

Typical performance on 70 x 70 mm PCB Measured @ 1561, 1575, 1603 MHz







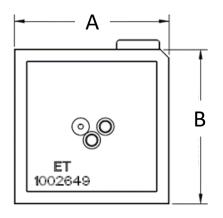
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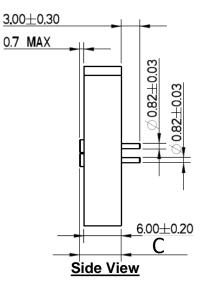


Mechanical Dimensions

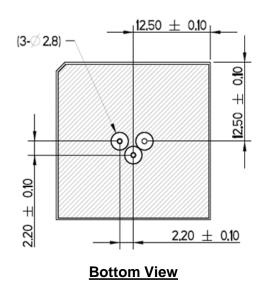
Typical antenna dimensions, in mm.

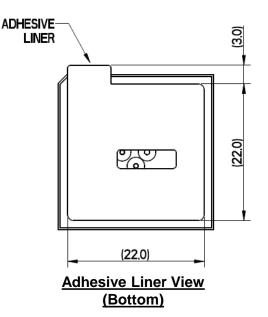
Part Number	A (mm)	B (mm)	C (mm)	
1002649	25.0 ± 0.2	25.0 ± 0.2	6.7 (+0.2/-0.4)	





Top View





Mouser Electronics

Authorized Distributor

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Kyocera AVX: 1002649