



LTE Wide Band & Dual Band GNSS (GPS/GLONASS) Active Antenna



Part Number: D-1RC3

Ø75 x 14.1mm

RoHS/RoHS II Compliant

Features

- GNSS Dual Band
- LTE Wide Band
- High Reliability/Sensitivity
- Compact Size, Easy to install
- RoHS Compliant

Applications

- GPS Navigation
- Vehicle tracking
- Emergency call systems
- Telemetry Applications
- Asset tracking

Electrical Specifications

GNSS Parameters	Min.	Typ.	Max.	Units	Notes
Center Frequency	1574.40	1575.42	1576.44	MHz	
Bandwidth	10.0			MHz	
VSWR			1.5:1		
Polarization Model	RHCP				(Right Hand Circular Polarization)
Impedance		50		Ω	
Gain		5		dB	(Based on 70×70mm ground plane)
Operating Temperature	-40		+80	°C	
Storage Temperature	-45		+85	°C	

LNA Specifications

Parameters	Min.	Typ.	Max.	Units	Notes
Center Frequency	1574.40	1575.42	1576.44	MHz	
DC Voltage	2.5	3.0	3.5	V	
Gain	25	26	28	dB	(Without cable +25°C±10°C)
Output VSWR			2.0		
Noise Figure			1.5		(+25°C ± 10°C)
DC Current		10.5	12.5	mA	



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LTE Parameters	Min.	Typ.	Max.	Units	Notes
Frequency Range	698		960	MHz	
	1710		2170	MHz	
	2500		2700	MHz	
VSWR	1.5		2.1		
Polarization Model	Vertical				
Impedance		50		Ω	
Gain		4		dBi	
Azimuth	Omni-directional				
Power Handling Capacity		50		W	
Lighting Protection	Direct Current earth				

LTE Parameters	Description	Note
Connector	SMA-RP	
Cable Type	RG-178	Inside the enclosure, 50 Ω
Radiator	Cuprum	
Enclosure	TPE	
Base	PBT + PC	
Radom Color	Black	



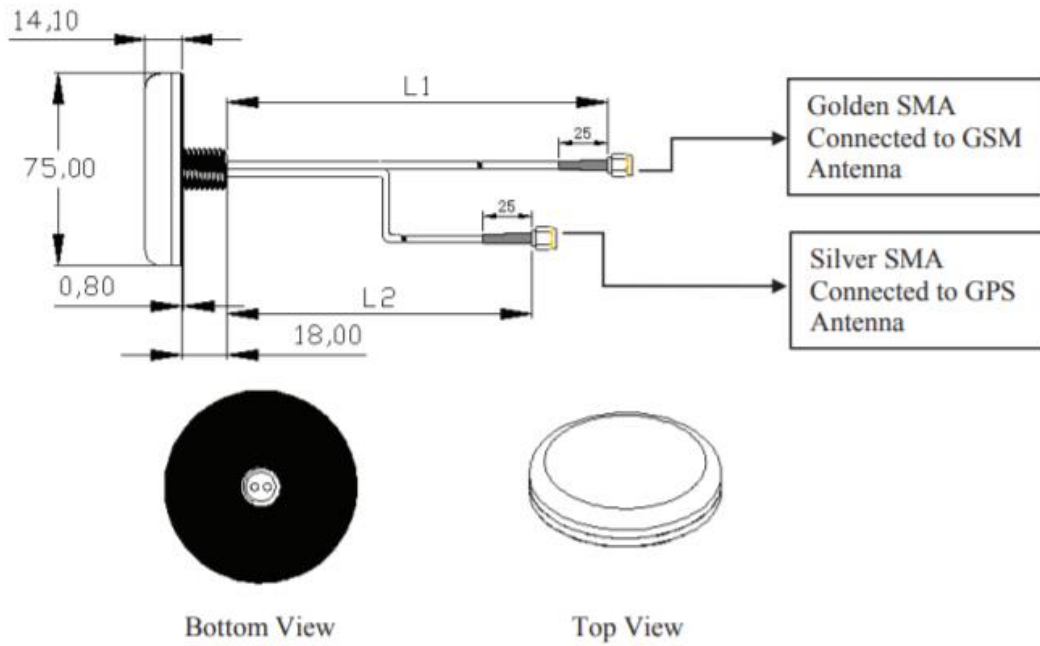
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Outline Drawing



Product Image





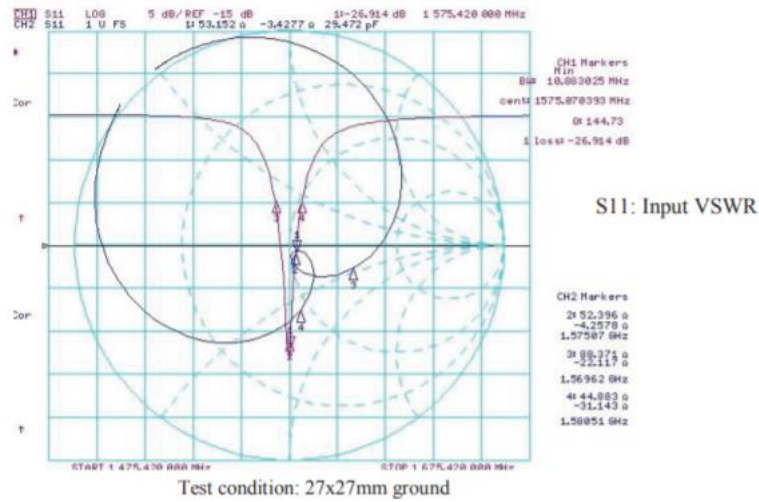
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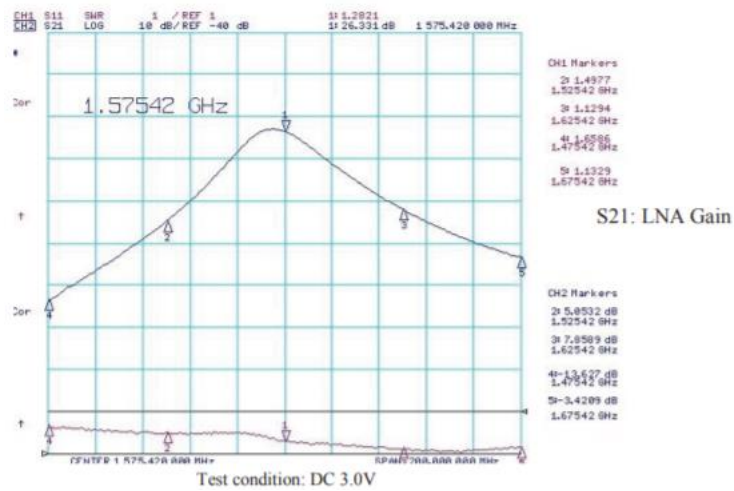
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Antenna's Impedance And Return-Loss Characteristics



LNA Reflection Profile





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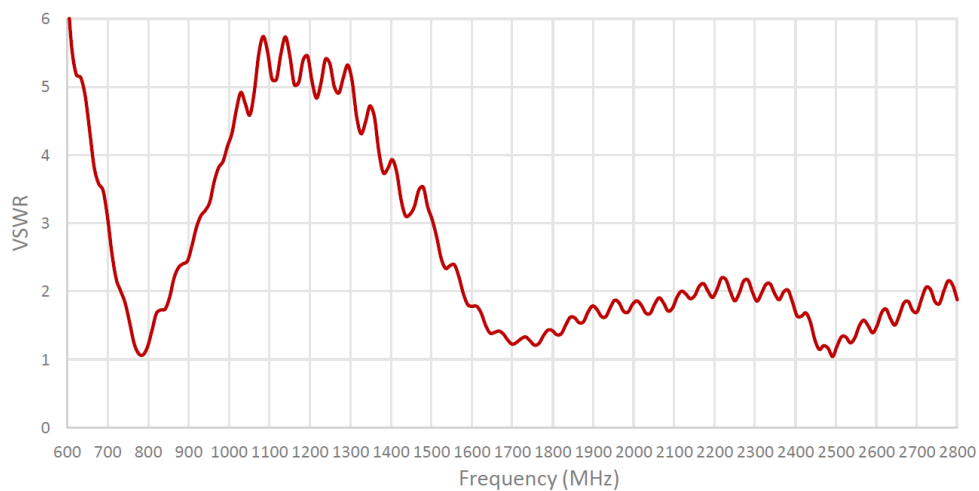
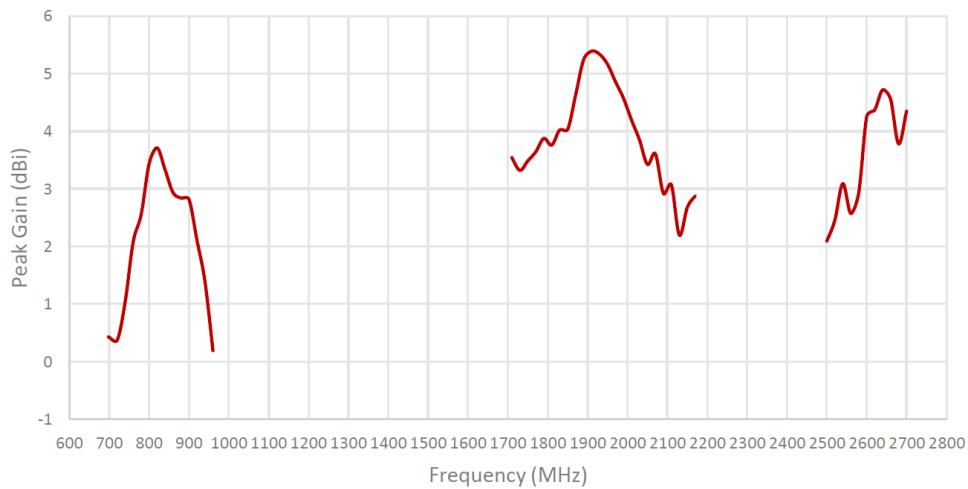


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LTE Efficiency & Gain

Frequency (MHz)	Efficiency	Gain (dBi)
700	0.41	0.3
824	0.73	3.6
868	0.64	2.8
960	0.40	0.2
1710	0.52	3.5
1850	0.54	4.0
1990	0.55	4.4
2170	0.44	2.9
2690	0.58	4.3



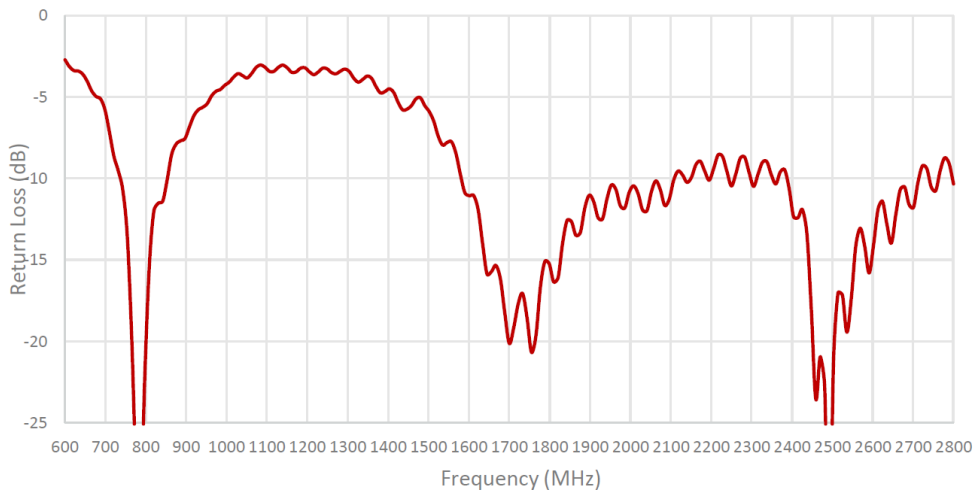
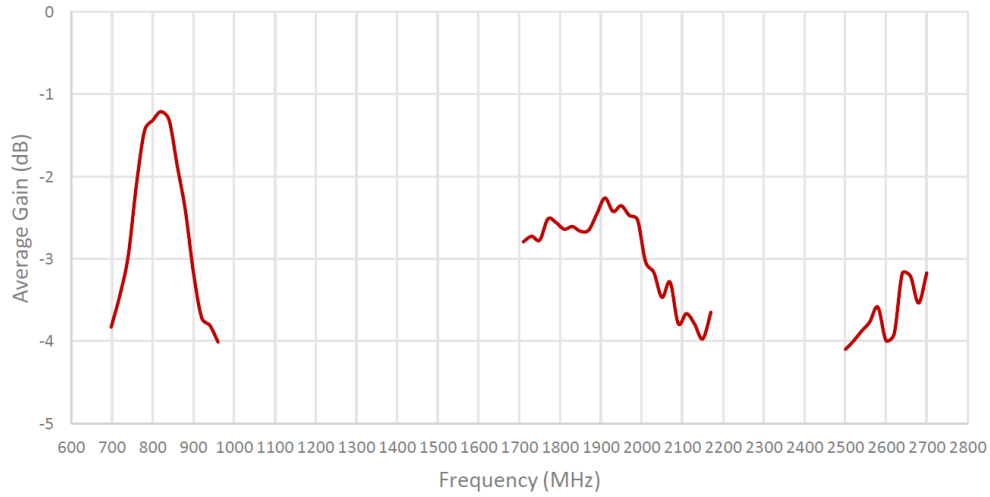


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Packaging

TBD

Caution:

- (1) Do not apply excess mechanical stress to the component body or terminations. Do not attempt to re-form or bend the components as this will cause damage to the component.
- (2) Do not expose the component to open flame.
- (3) This specification applies to the functionality of the component as a single unit. Please ensure the component is thoroughly evaluated in the application circuit.