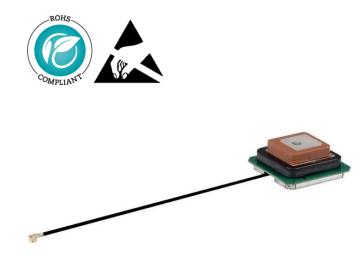
GNSS Active Patch Antenna GNSSL1L2182530





Features:

- 🕐 Ultra low noise 30dB amplifiers
- 🕐 Stacked L1 / L2 patch antenna
- *C* Single RF input with DC bias
- *•* High rejection filters to suppress out of band interference
- C ESD Protected
- *Pror 15dB version use P/N: GNSSL1L2182515 Provide a constant of the second s*

Applications:

- 🕐 GPS, Glonass, Galileo, Beidou, IRNSS
- *Multiband satellite navigation receivers*
- 🕑 L1 and L2 band devices

Electrical specifications¹ @ 25° C

Antenna type	nna type Nominal Impe		Polarization		Radiation pattern	
Patch	50Ω		RHCP		Directional	
Frequency (MHz)		L1: 1561-1602			L2: 1227	
Return Loss (dB)		< -10			< -9	
Radiating Element Peak Gain (dBi)		>4			>3	
Radiating Element Peak Gain (dBic)		>4			>0	
Avg. Efficiency (%)		>80			>60	
LNA Gain (dB) Typical		28			32	
Noise Figure (dB)		1.7 @1575MHz			1.8 @1227MHz	
Operating Voltage ² (VDC)			2.5 - 18			
Current Consumption (mA)		Max. 16				

Mechanical Specifications

Dimension Length x Width x Height (w/o cable)	Fixing method	Antenna Material	Connector Type	Cable Type
30mm*30mm*13.09mm / 1.181"x1.181"x.515"	Adhesive 3M RP16	Ceramic+PCBA+cable	I-PEX MHF	Ø1.13mm
Cable Length	Weight	RoHS- Compliant	Storage and operating Temperature	
100mm/3.937"	12 grams	Yes	-40°C to 85°C	

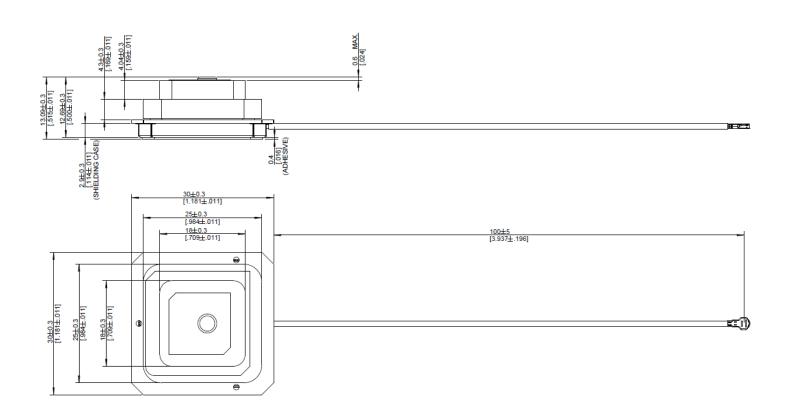
Notes:

1. The product is ESD sensitive, must be handled carefully and strictly according to the ESD requirements.

2. LNA internal voltage stabilized by LDO (Low dropout regulator)



Mechanical Drawing

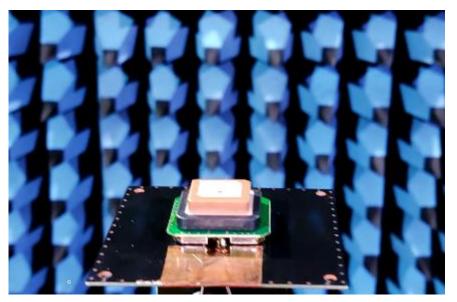


All dimensions are in mm / inches

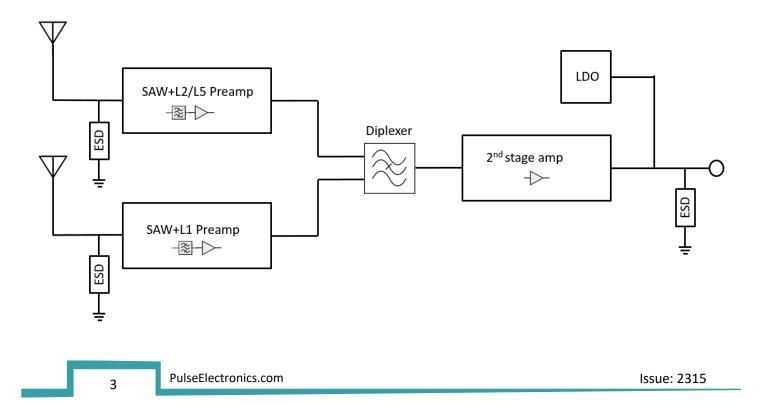


Testing Setup

Module is tested on 80*80mm ground plane.



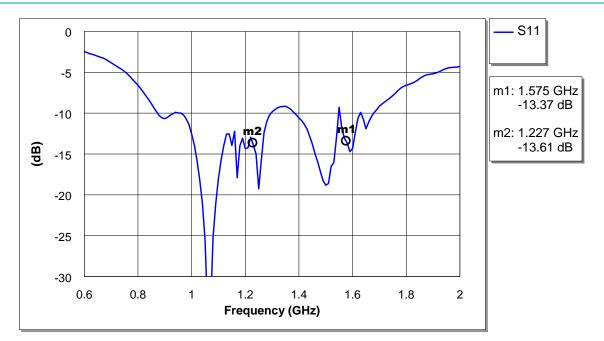
Active Antenna Block Diagram



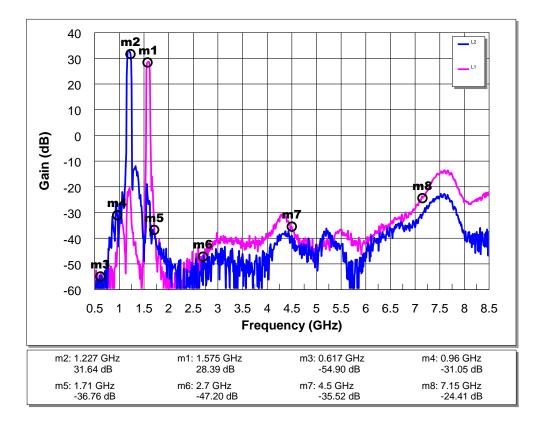
GNSS Active Patch Antenna GNSSL1L2182530



Return Loss



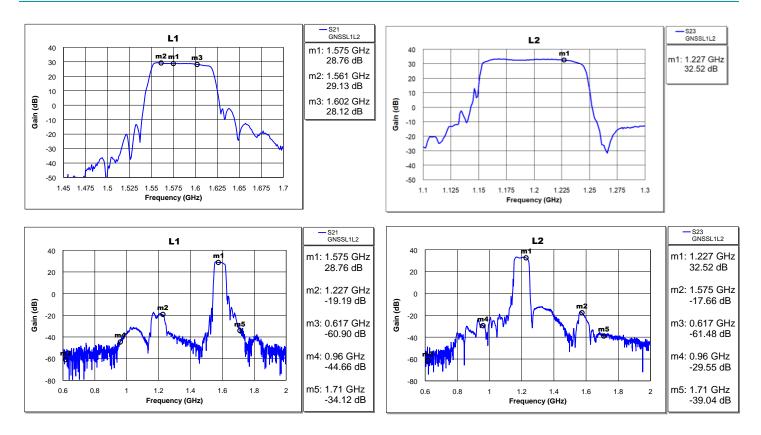
LNA Out of band rejection



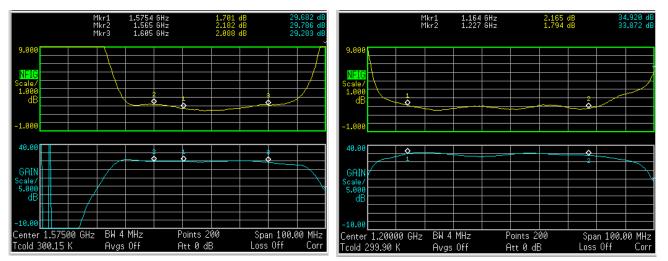
GNSS Active Patch Antenna GNSSL1L2182530



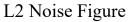
LNA Gain



LNA Noise Figure

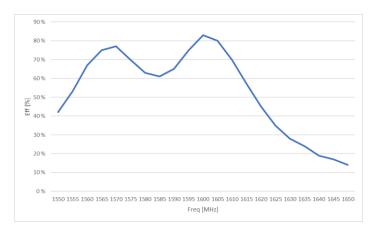


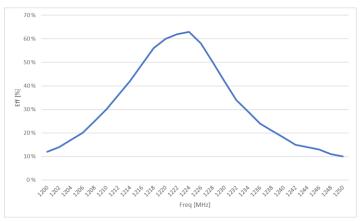
L1 Noise Figure





Radiating Element Efficiency

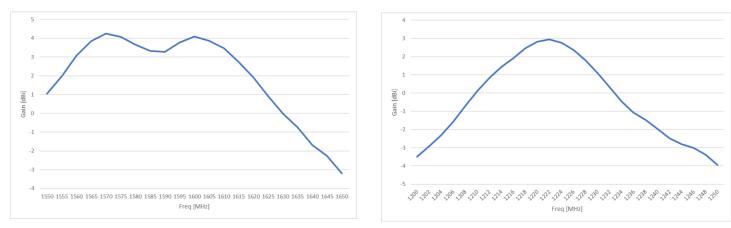




L1 Band

L2 Band

Radiating Element Peak Gain (Linear)



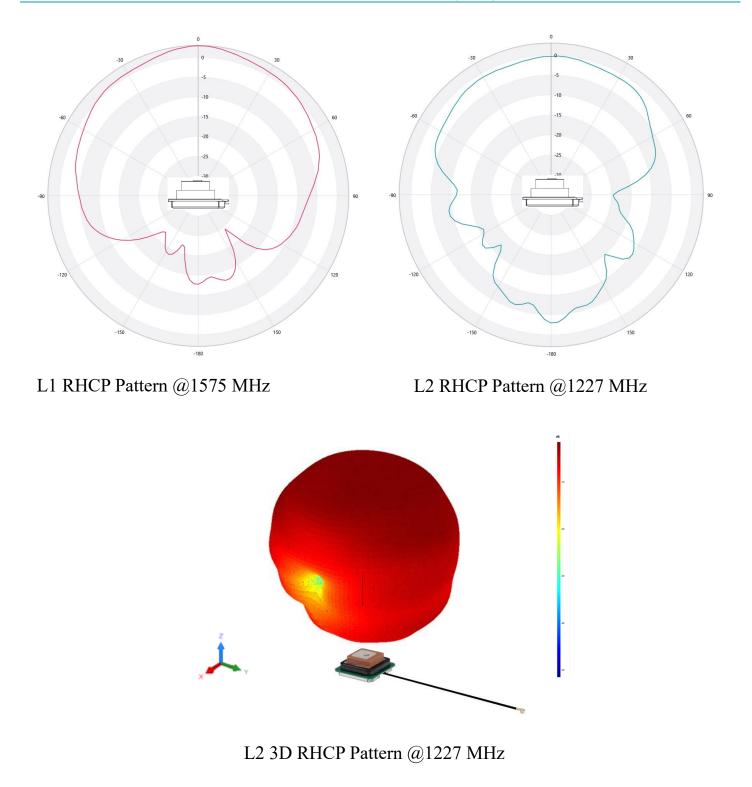




GNSS Active Patch Antenna GNSSL1L2182530



Radiation Patterns RHCP (dBic)





Reliability Tests

Temperature change-40°C to +85°C, MIL-STD 810G Method 503.5.1.Room Temperature to -40°C (2hours) 2.Storage for 2 hours at -40°C 3. -40°C to 85°C (2hours) 4. Storage for 2 hours at 85°C to -40°C (2hours) 6.Repeat from 2 to 5 for 5 times 740°C increase to room temperature within 2 hours (Total 44 Hrs) No loss of function after tests.Storage test-40°C to +85°C, MIL STD 810G Method 501.5 (high) Method 502.5 (low) 1.Room Temperature or -40°C within 2 hours 2.Storage for 24 hours at - 40°C; 340°C to room temperature within 2 hours 5.Storage for 24 hours at - 40°C; 340°C to room temperature within 2 hours 5.Storage for 24 hours at - 40°C; 340°C to room temperature within 2 hours 5.Storage for 24 hours at - 40°C; 340°C to room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°C; 6. 85°C room temperature within 2 hours 5.Storage for 24 hours at 85°						
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		According to IEC/EN 61000-4-2 Electromagnetic compatibility				
polarity, discharge frequency: 1 time/second	ESD Test					
		polarity, discharge frequency: 1 time/second				

Package

Antennas packed in tray (ESD requirements according to DIN EN 61340-5.1) and carton box

Each antenna wrapped in foam bag 240 PCS/ carton box Carton box dimensions (MM): 405x300x180

For More Information:

Americas - antennas.us@pulseelectronics.com | Europe - antennas.eu@pulseelectronics.com | Asia - antennas.as@pulseelectronics.com | Questions? +1-800-ANTENNA Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright , 2020. Pulse Electronics, Inc. All rights reserved. Company address: Pulse Electronics, a YAGEO Company, 15255 Innovation Drive, Suite #100, San Diego, CA 92128

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