

NGPSA2525BJ1R176G2M100D2F

L1 & L5 GPS Active Patch Antenna



Description

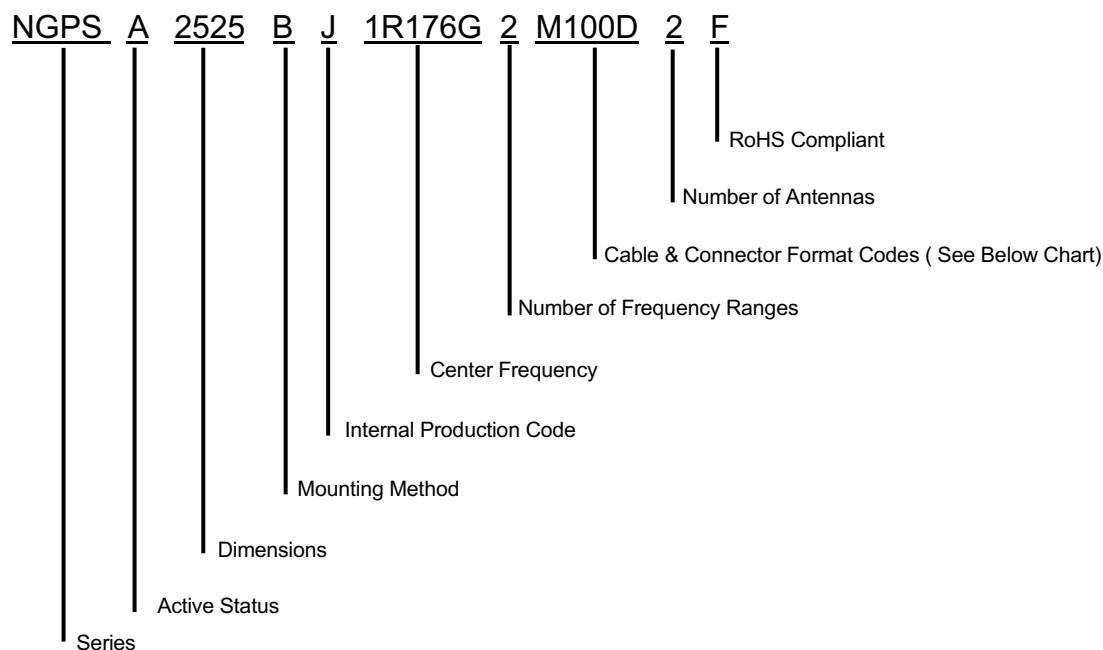
NGPSA2525BJ1R176G2M100D2F is an Active Patch Antenna designed for GPS applications. It operates within the frequency of 1575.42 MHz and 1176 MHz making it perfect for use in tracking, and fleet management



Features

- L1 & L5 Active Patch Antenna
- Customizable Cables and Connectors
- RoHS Compliant

Part number Breakdown



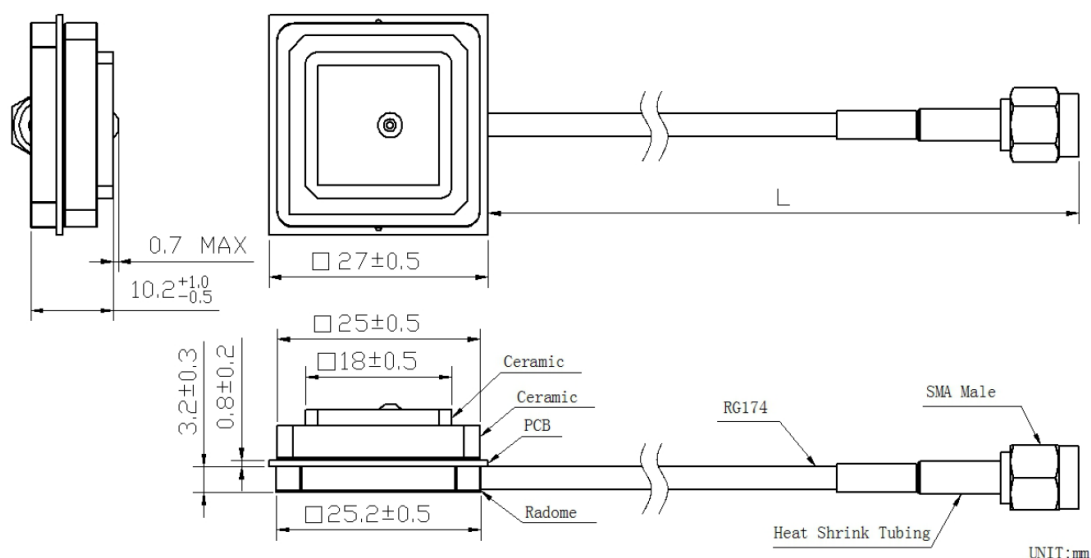
Cable & Connector Format Codes

Connector	Cable Length	Cable Type
SMA Male (M)	100 mm	RG174 (D)

Specifications

Electrical		
Frequency Range	High Band: GPS-L1: 1575.42 MHz	Low Band: GPS-L5: 1176 MHz
VSWR	< 1.5	
Gain	2 dBic @ PCB (Zenith)	
Polarization	RHCP	
Impedance	50Ω	
LNA		
Gain	28 ± 2 dB	
VSWR	< 2.0	
Noise Figure	≤ 1.5 dB	
Supply Voltage	3 ~ 5V DC	
Current Consumption	< 45mA	
Environmental		
Operating Temperature	-40°C~+85°C	
Relative Humidity	Up to 95%	
Vibration	10 ~ 55Hz 1.5mm Amplitude 2 Hours	
PCB	27 mm x 27 mm	
RoHS Compliant	Yes	

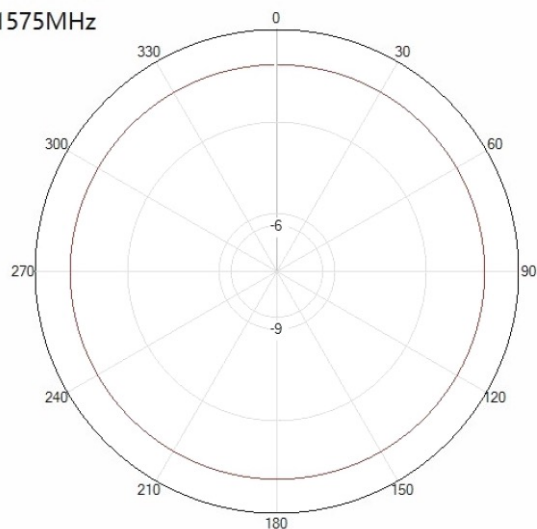
Dimension



Radiation Patterns

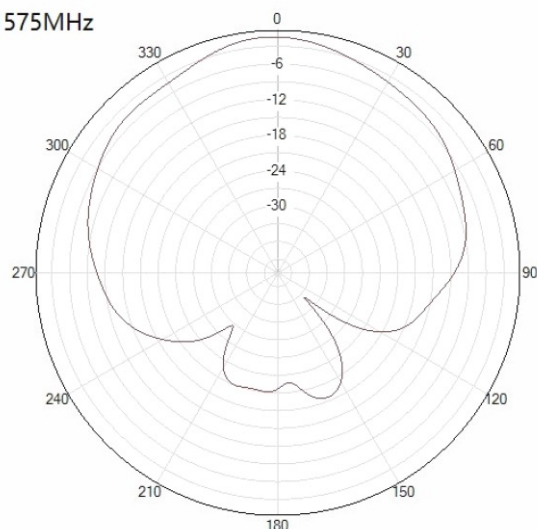
XY-PLANE

1575MHz



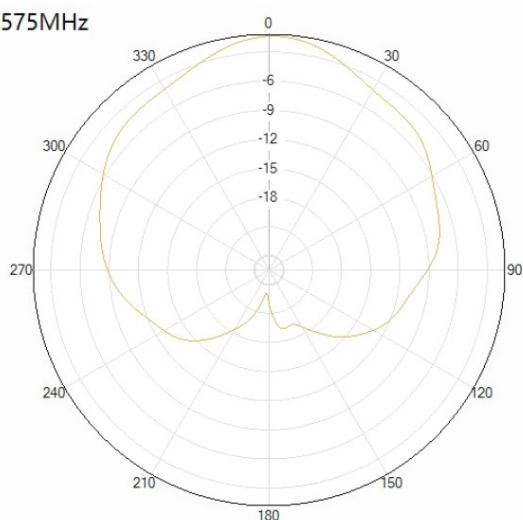
XZ-PLANE

1575MHz



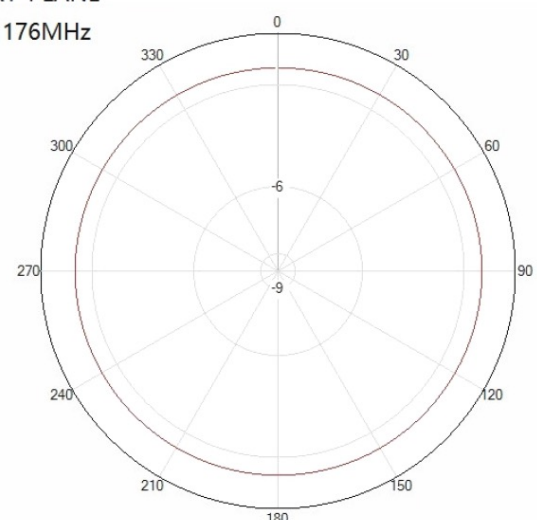
YZ-PLANE

1575MHz



XY-PLANE

1176MHz



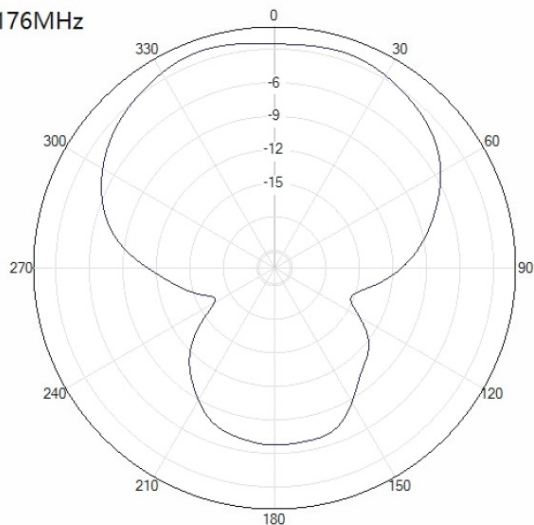
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L1 & L5 GPS Active Patch Antenna



XZ-PLANE

1176MHz



YZ-PLANE

1176MHz

