

NGPSA4545BJ1R227G3MP2F

L1, L2 & L5 GNSS Active Patch Antenna



Descriptions

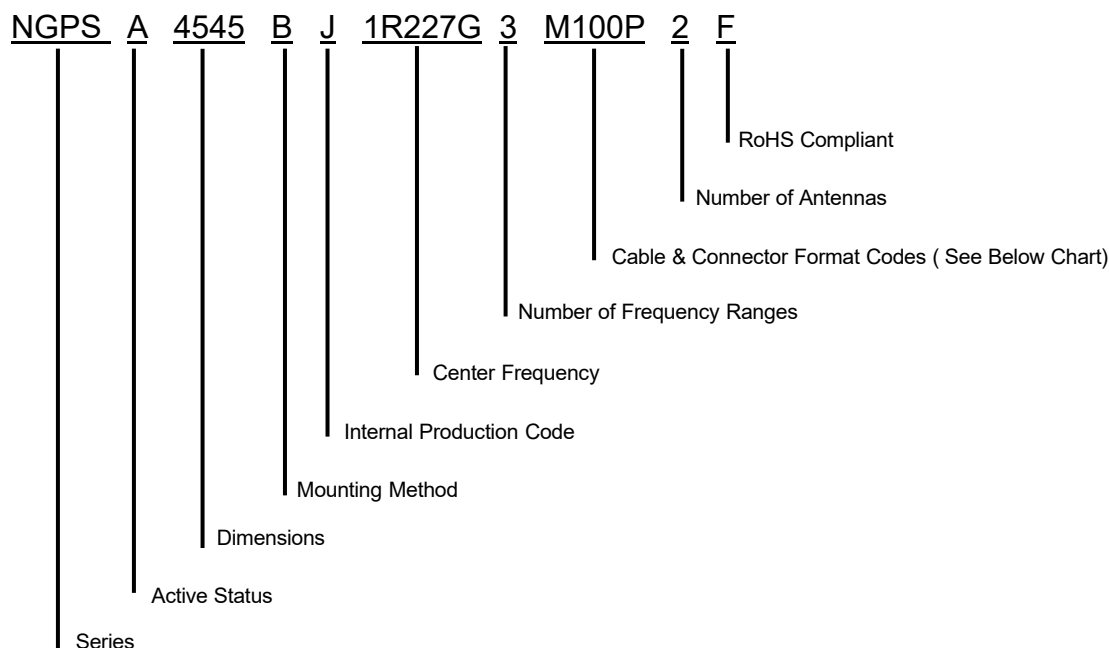
NGPSA4545BJ1R227G3MP2F is an Active Patch Antenna designed for GPS applications. It operates within the frequency of 1575.42 , 1227 MHz making it perfect for use in tracking, and fleet management



Features

- L1 & L2 GPS Active Patch Antenna
- Customizable Cables and Connectors
- RoHS Compliant

Part number Breakdown



Standard Part Number Listing

Part Number	Connector	Cable Length	Cable Type
NGPSA4545BJ1R227G3M100P2F	SMA Male (M)	100 mm	RG316 (P)
NGPSA4545BJ1R227G3M400P2F	SMA Male (M)	400 mm	RG316 (P)

The table represents assembled part numbers available on www.niccomp.com from standard connector and cable options. For options not listed above please contact NIC"

Specifications

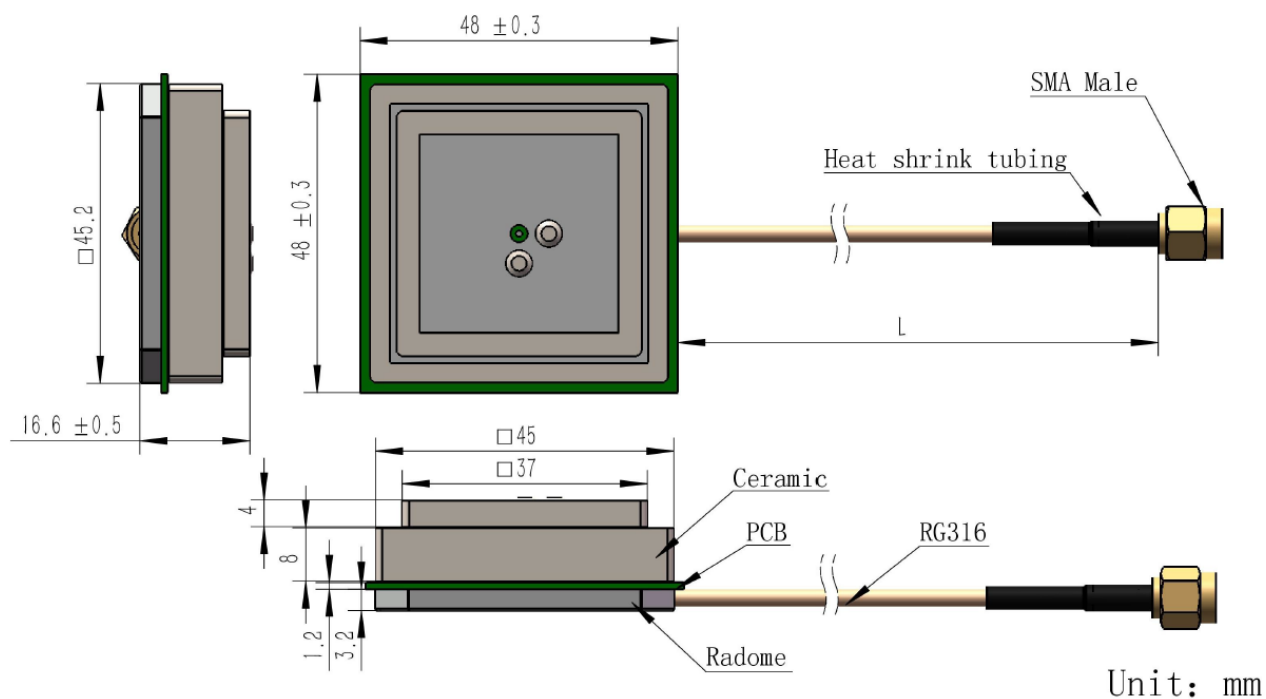
Electrical	
Frequency Range	1575.42 MHz 1227 MHz 1176 MHz
Frequency Bands	GPS L1/L2/L5 GLONASS G1/G2/G3 COMPASS B1/B2 Galileo E1/L1/E2/E5a/E5b
VSWR	≤ 2.0
Gain	≥ 2 dBi
Axial Ratio (min)	≤ 3 dB
Horizontal Coverage Angle	360°
Polarization	RHCP
Impedance	50Ω
LNA	
Gain	28 ± 2 dB
VSWR	≤ 2.0
Noise Figure	≤ 1.5 dB
Passband Fluctuation	± 1.5 dB
Supply Voltage	3 ~ 12V DC
Current Consumption	≤ 50 mA
Environmental	
Operating Temperature	-40°C~+85°C
Relative Humidity	Up to 95%
Vibration	10 ~ 55Hz 1.5mm Amplitude 2 Hours
PCB	48 mm x 48 mm
RoHS Compliant	Yes

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Dimension Drawing

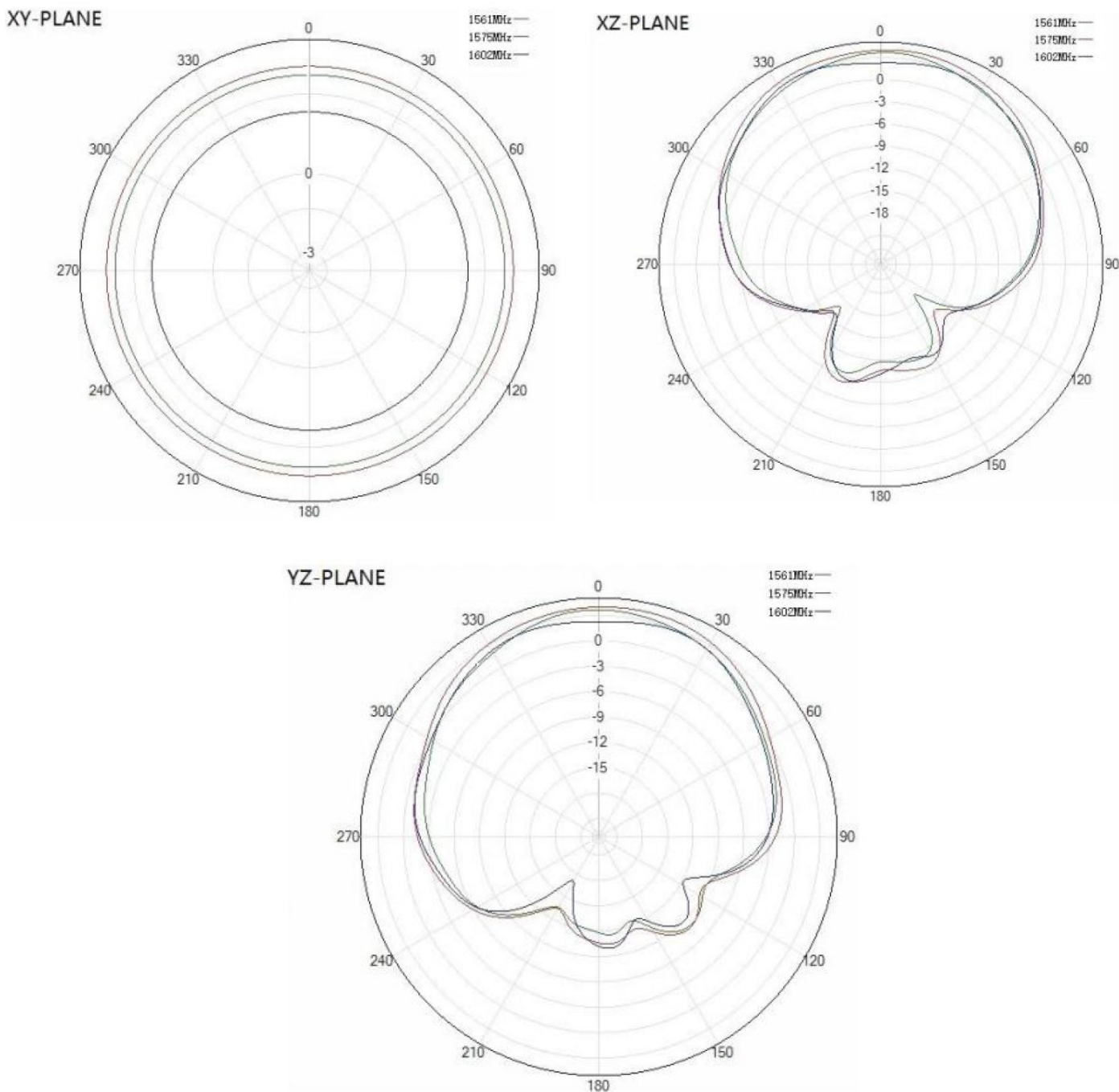


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Radiation Patterns

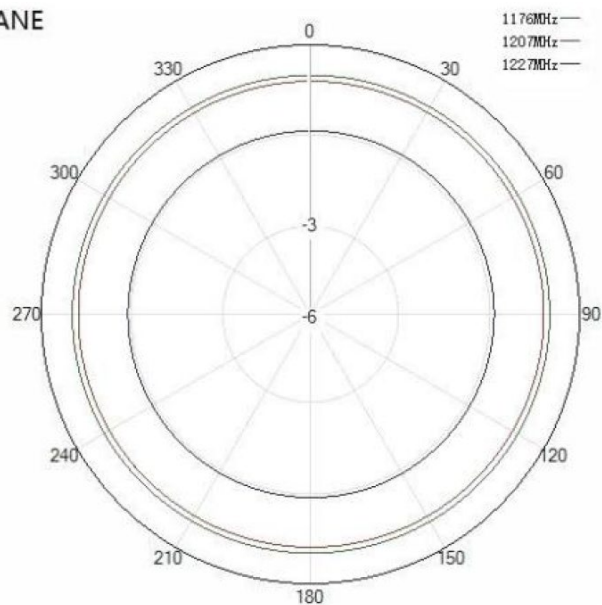


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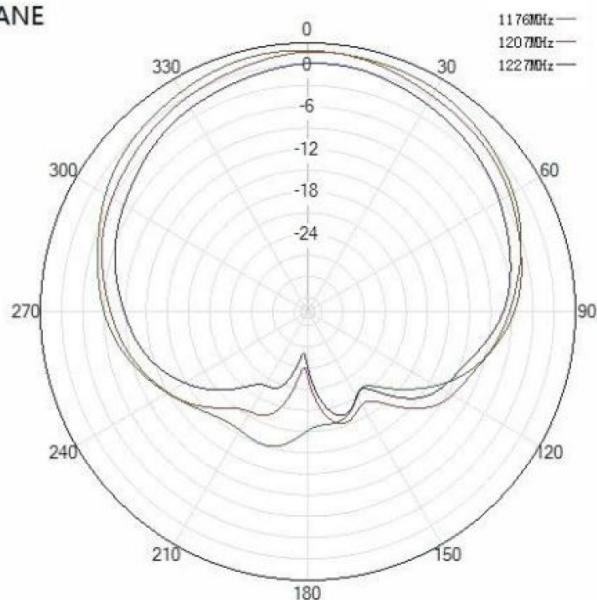
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XY-PLANE



XZ-PLANE



YZ-PLANE

