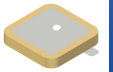


GNSS L1 Ceramic Patch Antenna



AANI-PP-0055

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25.0 x 25.0 x 4.0mm

RoHS Compliant

MSL Level = N/A

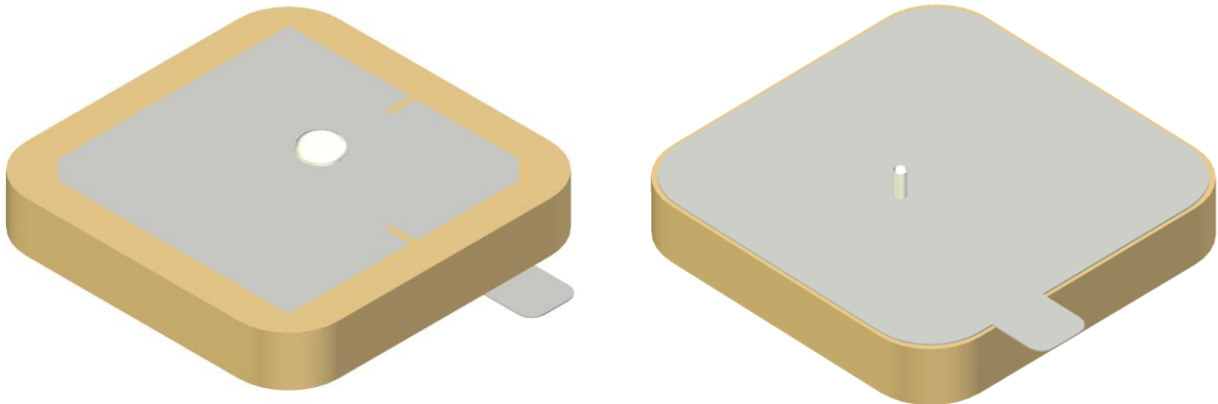
Features

- Multi-Constellation Passive GNSS Antenna
 - GPS: L1
 - GLONASS: G1
 - BeiDou: B1
 - Galileo: E1
 - QZSS: L1
 - SBAS: L1
- RHCP Polarization
- Small Size of 25.0 x 25.0 x 4.0 mm
- Light Weight

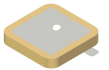
Applications

- IoT / M2M
- Unmanned Aerial Vehicle (UAV)
- Fleet Management and Asset Tracking
- Transportation
- Precision Agriculture
- Geolocation and Tracking

Product Image



GNSS L1 Ceramic Patch Antenna



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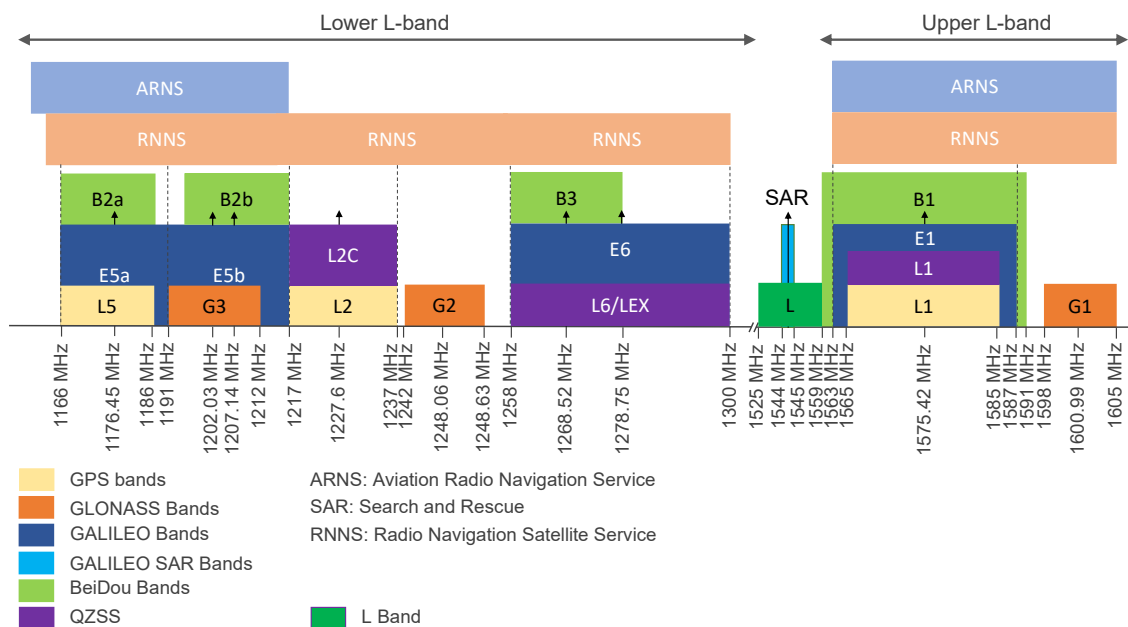
Check Inventory



25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

GNSS Frequency Bands Covered

System	Band	Frequency Range	Frequency
GPS	L1	1575.42MHz	■
	L2	1227.6MHz	□
GLONASS	G1	1598.06-1609.31MHz	■
	G2	1242.93-1251.68MHz	□
Galileo	E1	1575.42MHz	■
	E5a	1176.45MHz	□
BeiDou	B1	1561MHz	■
	B2	1207.14MHz	□
QZSS	L1	1575.42MHz	■
	L2	1227.6MHz	□
IRNSS/NAVIC	L5	1176.45MHz	□
	L6	1278.75MHz	□
SBAS	L1/E1/B1	1575.42MHz	■
	L5/B2a/E5a	1176.45MHz	□



Frequency allocation: GNSS systems, upper L bands and lower L bands

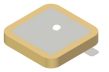


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25.0 x 25.0 x 4.0mm
RoHS Compliant
 MSL Level = N/A

Electrical Specification

Parameters	Typ.	Units	Note
Antenna			
Frequency	GPS: L1 GLONASS: G1 Beidou: B1 Galileo: E1 QZSS: L1 SBAS: L1/E1/B1	-	
VSWR	< 2.0	-	
Polarization	RHCP	-	(Right Hand Circular Polarization)
Nominal Impedance	50	Ω	
Peak Gain	> 4.0	dBic	L1 (1575.42 MHz)/G1 (1602MHz)
Efficiency	> 75	%	L1 (1575.42 MHz)/G1 (1602MHz)
Axial Ratio	< 5.0		L1 (1575.42 MHz)/G1 (1602MHz)

Note: With 60 x 60 mm Ground Plate

Mechanical Specification

Parameter	Specification
Antenna Dimension	25.0 x 25.0 x 4.0mm
Mounting Type	Through hole

Environmental Specification

Parameter	Specification
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +110°C
RoHS Compliance	Yes



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25.0 x 25.0 x 4.0mm

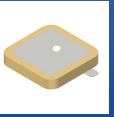
RoHS Compliant

MSL Level = N/A

Ordering Information

Part Number	Description
AANI-PP-0055	GNSS L1 Ceramic Patch Antenna
AANI-PP-0055-EVB	GNSS L1 Ceramic Patch Antenna EVB

GNSS L1 Ceramic Patch Antenna



AANI-PP-0055

Request Samples

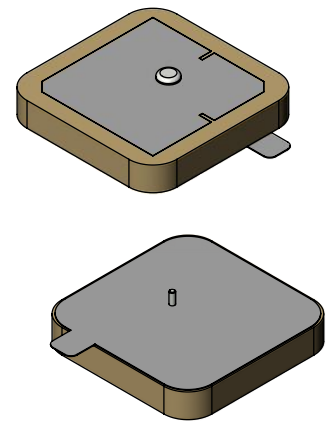
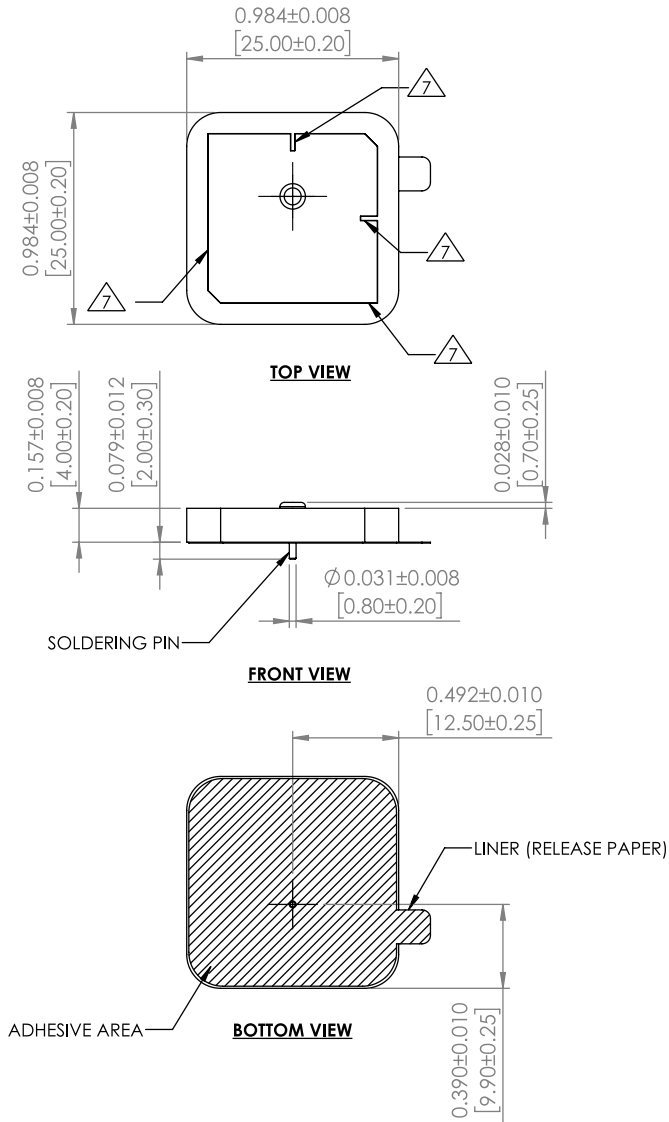


Check Inventory

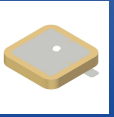


25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

Product Dimensions



Unit: inches [mm]



AANI-PP-0055

Request Samples



Check Inventory



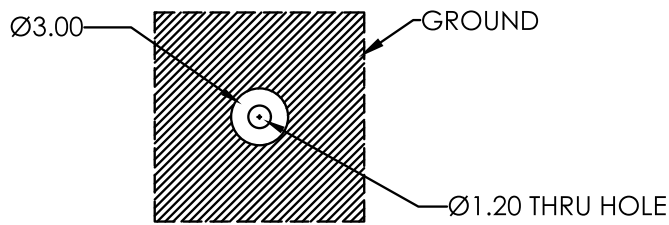
25.0 x 25.0 x 4.0mm

RoHS Compliant

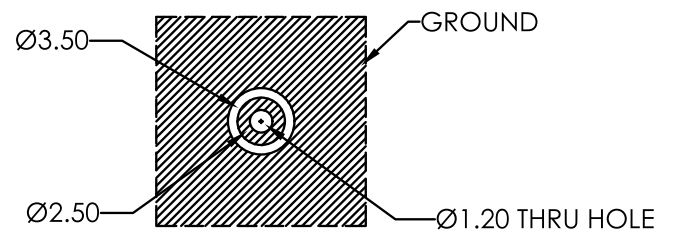
MSL Level = N/A

PCB Footprint

TOP VIEW

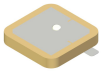


BOTTOM VIEW



Tolerance : ± 0.20

Unit : mm



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Request Samples

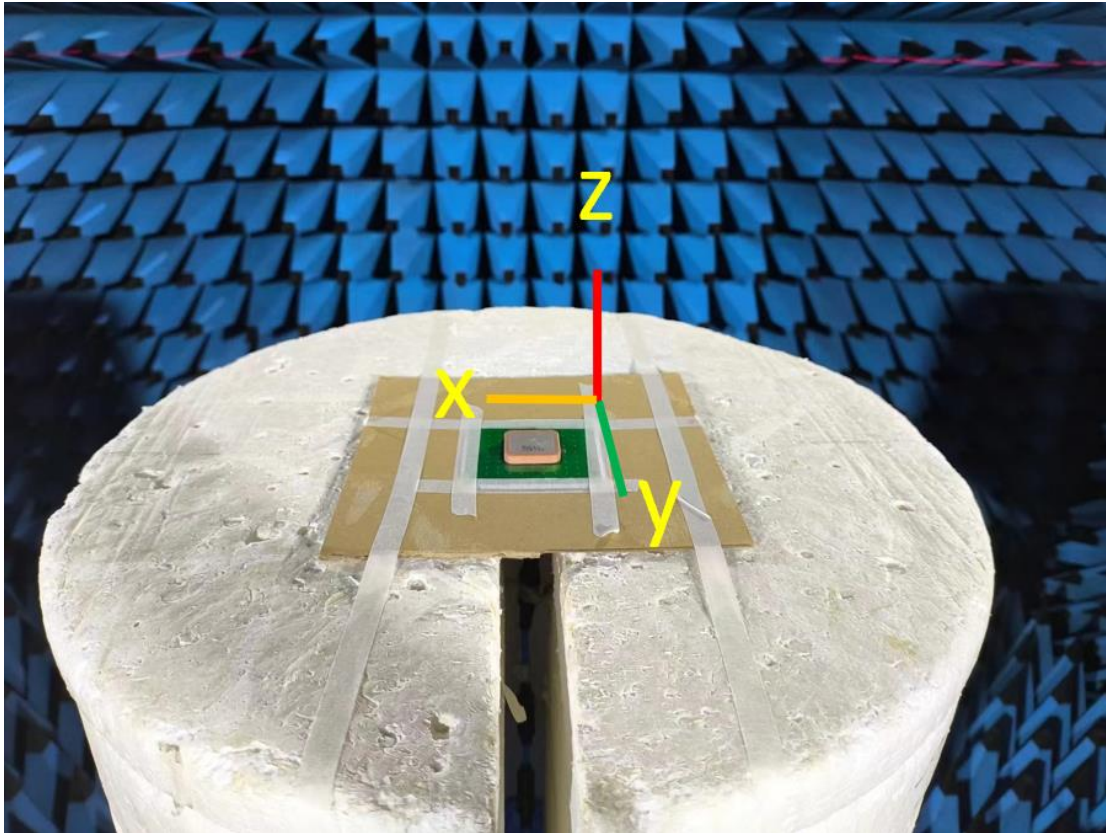


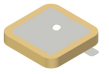
Check Inventory



25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

Measurement Setup





AANI-PP-0055

Request Samples

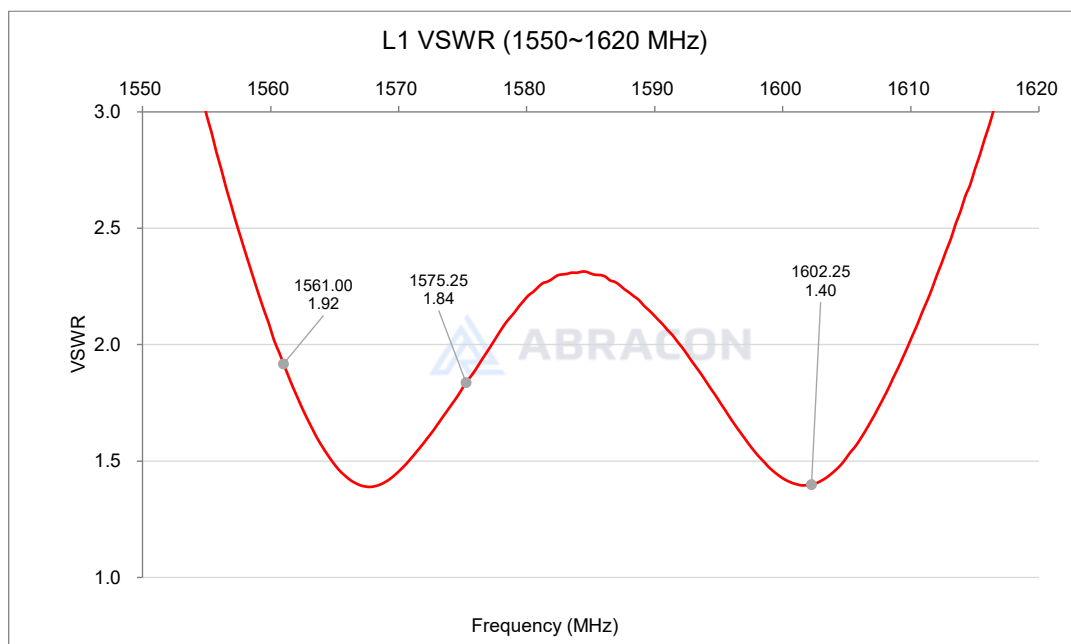
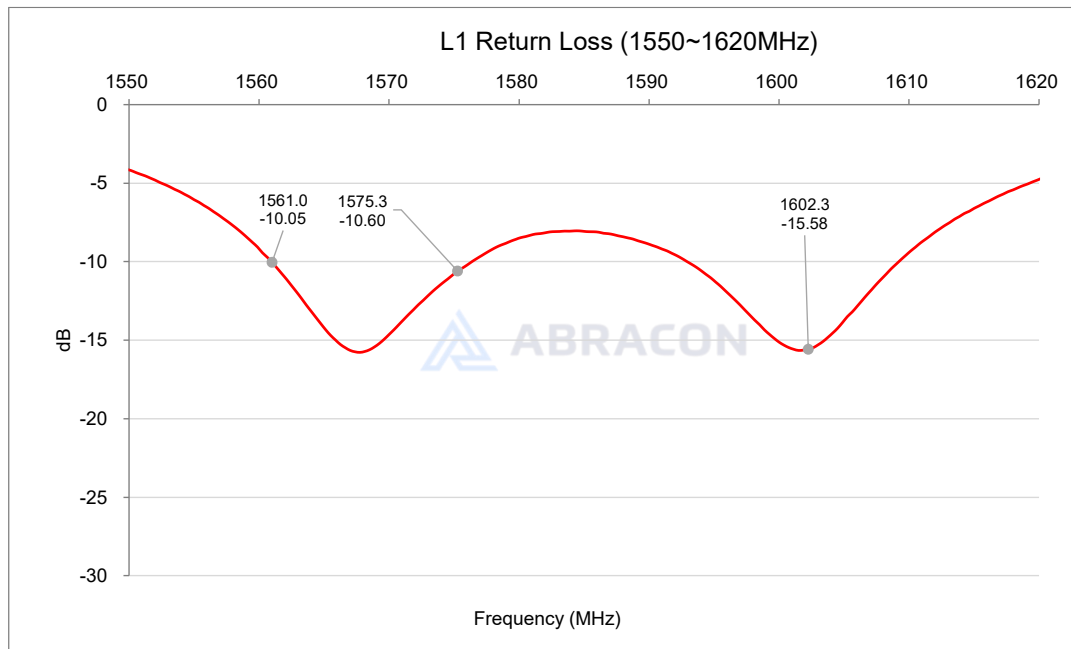


Check Inventory



25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

Reflection Characteristics – Return Loss & VSWR





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Request Samples

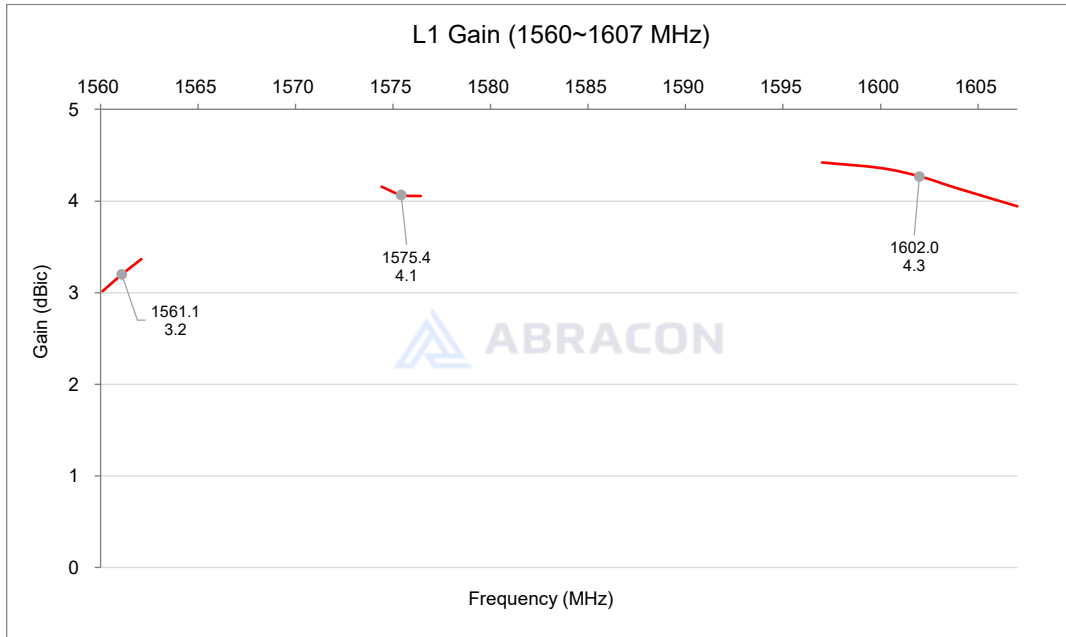


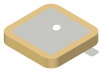
Check Inventory



25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

Radiation Characteristics – Peak Gain





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Request Samples

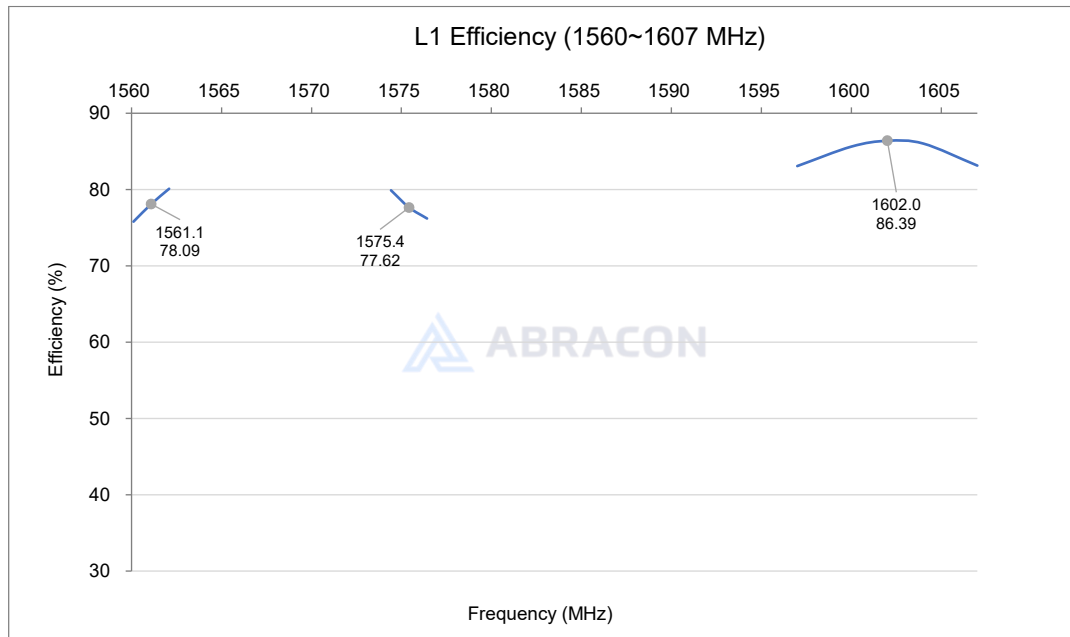


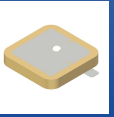
Check Inventory



25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

Radiation Characteristics – Total Efficiency (%)





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Request Samples



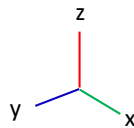
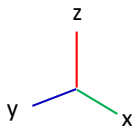
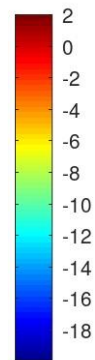
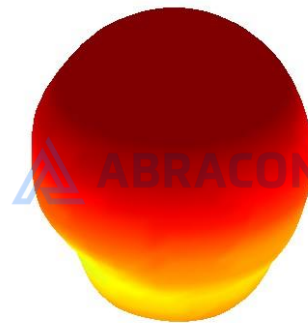
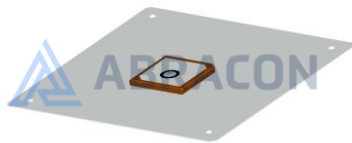
Check Inventory



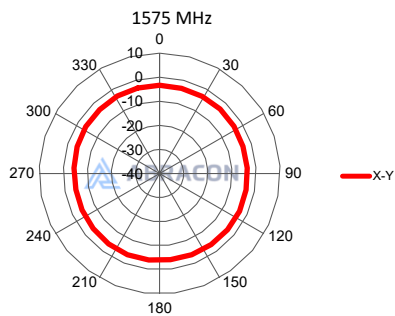
25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

Radiation Characteristics – 3D & 2D Pattern

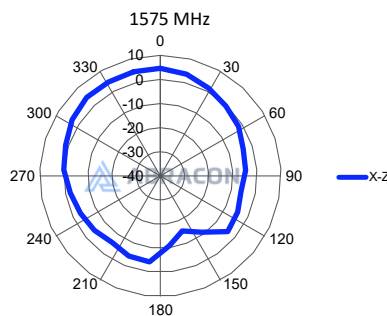
1575MHz



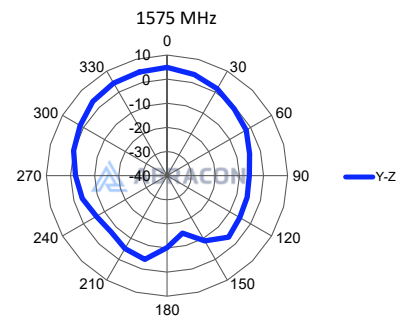
XY plane



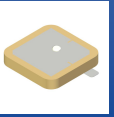
XZ plane



YZ plane



GNSS L1 Ceramic Patch Antenna



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Request Samples

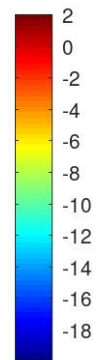
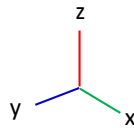
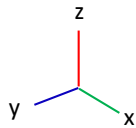
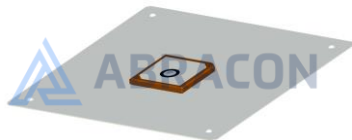


Check Inventory

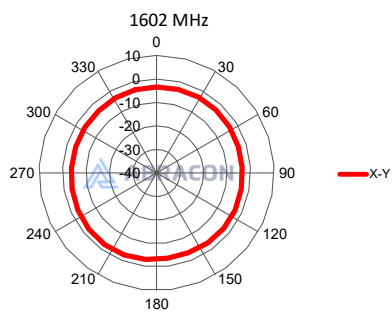


25.0 x 25.0 x 4.0mm
RoHS Compliant
MSL Level = N/A

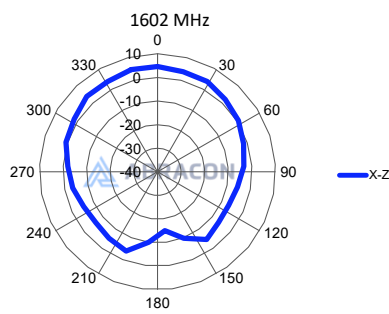
1602MHz



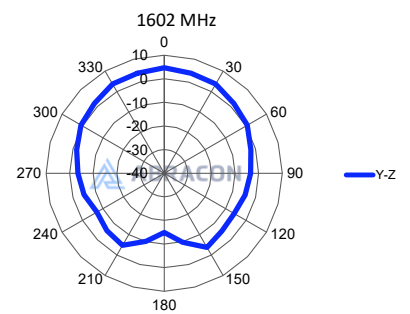
XY plane



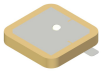
XZ plane



YZ plane



GNSS L1 Ceramic Patch Antenna



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Check Inventory



25.0 x 25.0 x 4.0mm

RoHS Compliant

MSL Level = N/A

Packaging

1. 50 pcs per tray
2. 500 pcs per inner box
3. 1000 pcs per carton

Dimension of the carton: 345 x 210 x 255 mm

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