

# Part No. X1005247 GNSS (active) External Antenna

(1561 / 1575 / 1602) MHz

Supports: Tracking, Smart Home, Agriculture, Aftermarket, Healthcare, Digital Signage, Logistics, Industrial Devices



## GNSS (active) External Antenna

(1561 / 1575 / 1602) MHz

### KEY BENEFITS

#### Reduced Costs and Time-to Market

Standard antennas eliminate design fees and cycle time associated with a custom solution, getting products to market faster.

#### High Performance

By optimizing antenna size, performance and emissions, customer and regulatory specifications are more easily met.

#### Environmental Compliance

Comply with latest RoHS requirements

### APPLICATIONS

- Remote Monitoring
- Point of Sale
- IoT
- Gateway
- Telematics
- Tracking
- Healthcare
- M2M, Industrial devices
- Smart Grid
- Logistics
- Energy
- Retail

### Electrical Specifications

Typical characteristics in free-space using 1m cable.

Frequency (GNSS)	1561 MHz	1575 MHz	1602 MHz
Gain at Zenith	2.0 dBi	4.1 dBi	2.0 dBi
VSWR	2.0:1 max		
Polarization	RHCP		
LNA Electrical Properties			
Frequency (GNSS)	1561 MHz	1575 MHz	1602 MHz
VSWR	2.0:1 max		
Impedance	50 Ω		
Antenna Gain (@3.3 V)	28 dB / 25 dB min.		
DC Power Input	3~5 V		
Noise Figure	1.1 dB Typ.		
Power Consumption (@ 3.3 v)	9 mA Typ.		

### Mechanical Specifications

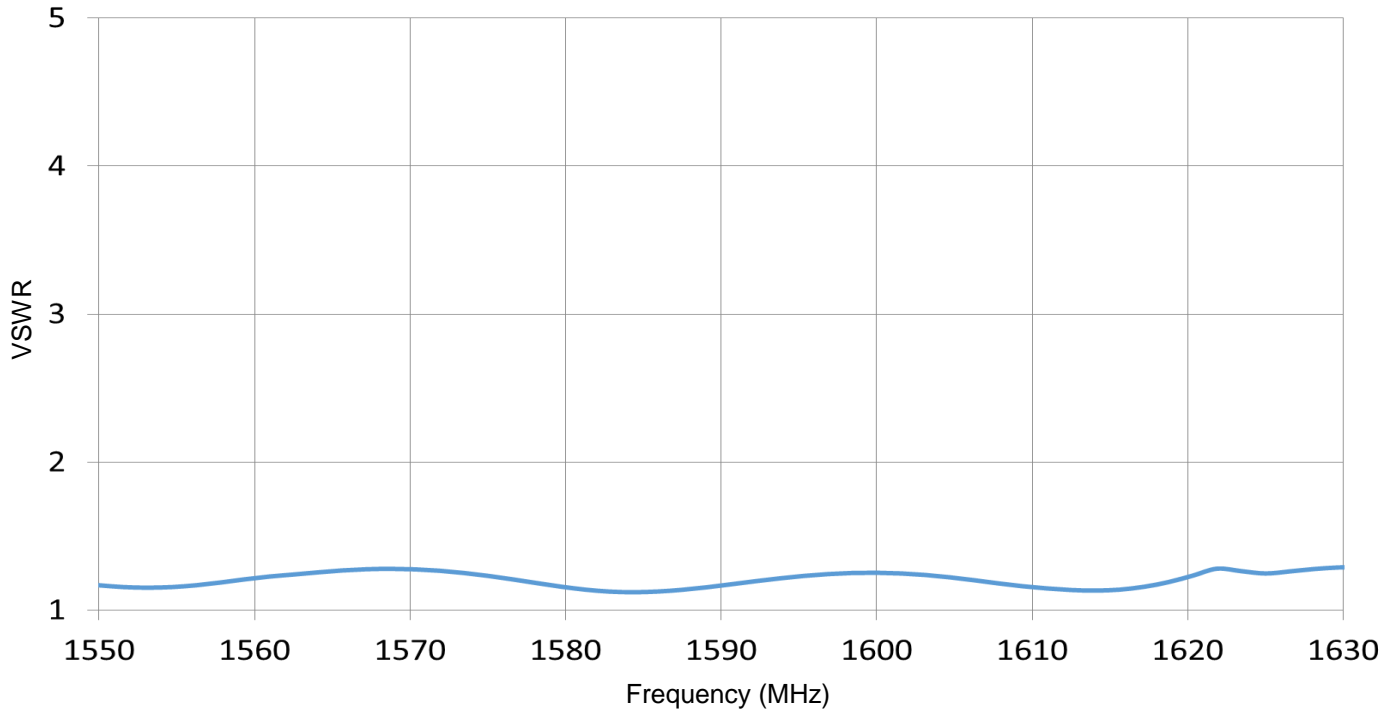
Ordering Part #	X1005247
Dimensions (mm)	44.0 x 35.2 x 14.5
Mounting Type	Foam Adhesive
Weight	42g (X1005247-GNA1SA10A1) 68g (X1005247-GNA1SA30A1)
Operating Temperature (°C)	-40 ~ +85
Housing Material & Color	PC + ABS (Black)
Cable	Length: 1.0-meter, Type: RG-174 (X1005247-GNA1SA10A1) Length: 3.0-meter, Type: RG-174 (X1005247-GNA1SA30A1)
Connector	GNSS SMA(M)
Waterproof	IPX7

GNSS (active) External KYOCERA AVX Antenna Specifications.  
KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

### VSWR Plots (GNSS 1561 & 1575 & 1602 MHz)

Typical characteristics in free-space using 1m cable.

#### VSWR:



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 KYOCERA AVX produces a wide variety of standard and custom antennas to meet user needs.

### Mechanical Dimensions

Typical antenna dimensions (mm)

Part Number	A	B	C	D
X1005247-GNA1SA10A1	44.0 ± 0.5	35.2 ± 0.5	14.5 ± 1.0	1000 ± 40.0
X1005247-GNA1SA30A1	44.0 ± 0.5	35.2 ± 0.5	14.5 ± 1.0	3000 ± 80.0

