



# 1559-1610 MHz GNSS ACTIVE ANTENNA MAGNETIC MOUNT

Part Number: 2195891-1

## FEATURES & BENEFITS

- L1+G1 bands for GNSS
- Active External Patch Antenna
- Different cable lengths and connector options available
- No matching circuits required
- Magnetic Mount

## RF SPECIFICATIONS

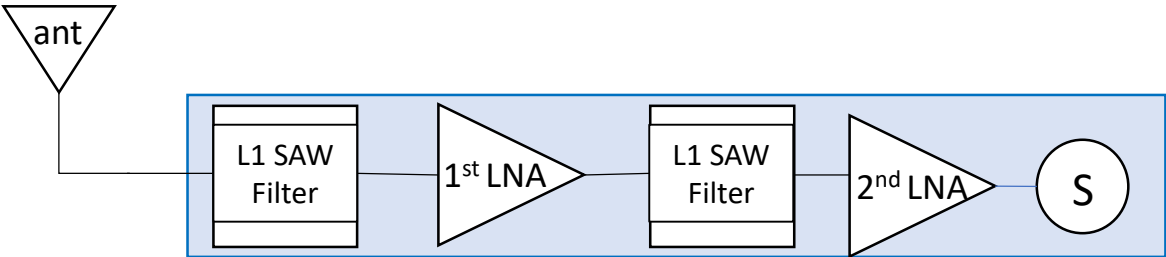
Frequency Range (MHz)	1559 - 1610
VSWR	< 1.9:1
System Gain at Zenith @ 5V	Typ. 24.7 ~ 29.4 dBic
Axial Ratio at Zenith	Typ. 1.89 dB
Average Gain (Cable loss included)	21.51 dBic
Noise Figure	Typ. 1.4 dB @ 5V
Group Delay @ Zenith Variation Across Single Constellation(ns)	20.1
LNA (Voltage & Current)	DC Voltage Range 3.0 ~ 5.0V & 15.0 mA @ 5.0V
Power Handling	10 Watt cw
Feed Point Impedance	50 ohms
Polarization	RHCP

# MECHANICAL SPECIFICATIONS

Size	50.0 mm x 38.0 mm x 17.0 mm
Weight	< 68.25 g
Mounting	Magnetic mount / External chassis mounting
Mating Connector	SMA
Cable	RG-174
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

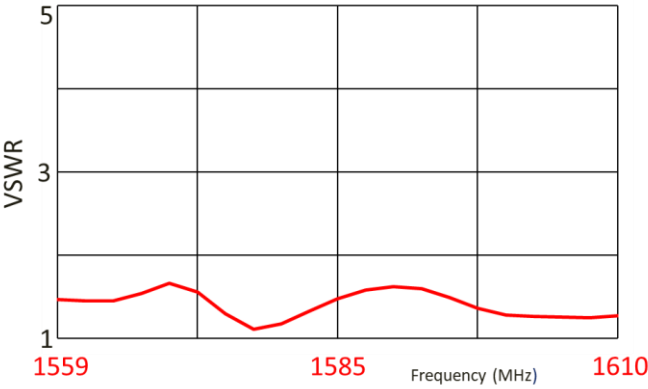
# OUT OF BAND ATTENUATION

Frequency (MHz)	1459(F <sub>0</sub> -100)	1710(F <sub>0</sub> +100)
Atten. (dB)	35.32	33.15
L1 & G1 F <sub>0</sub> = 1559 MHz & 1610 MHz		

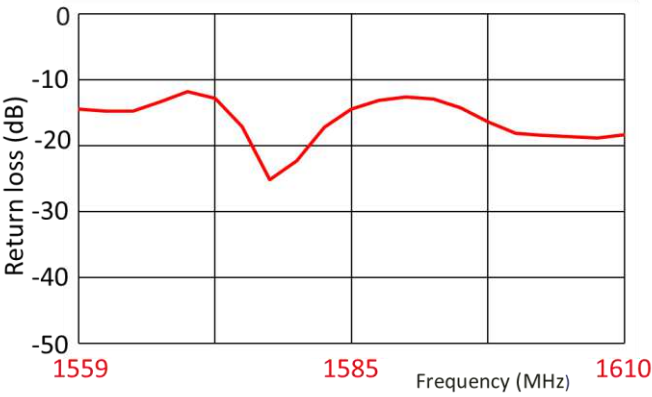


RF DATA

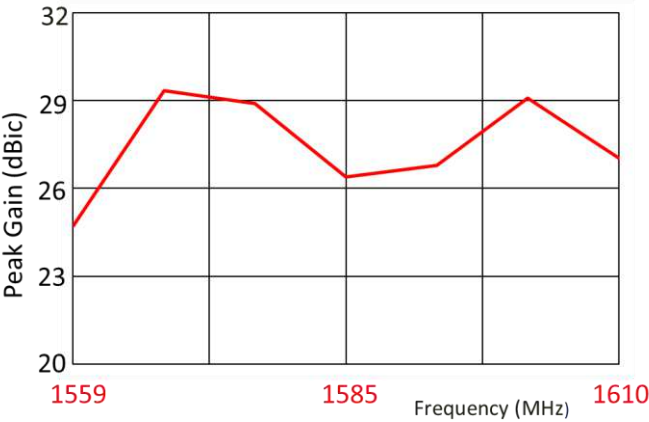
VSWR



Return Loss



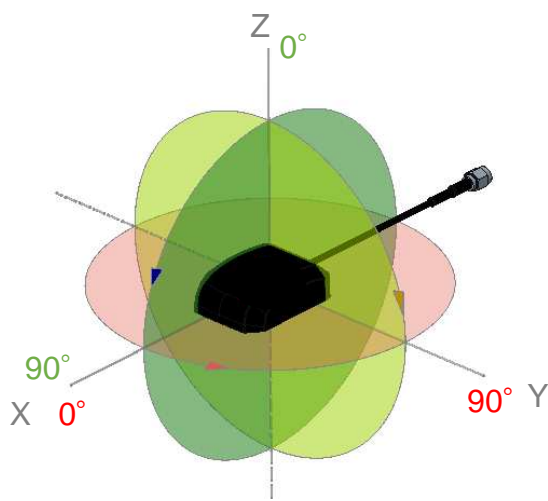
Peak Gain



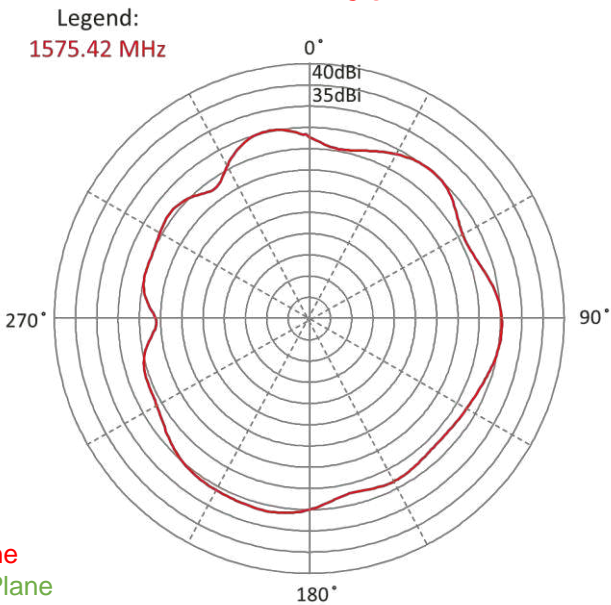
Antenna gain varies with cable length

RADIATION PATTERN

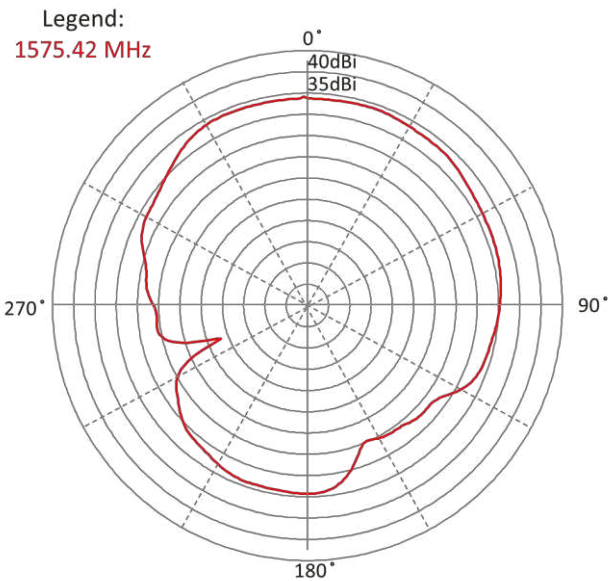
Test setup



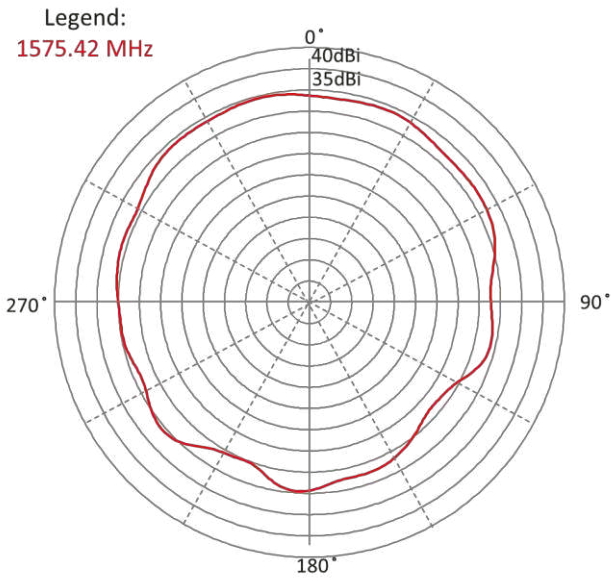
Azimuth



Elevation 1



Elevation 2

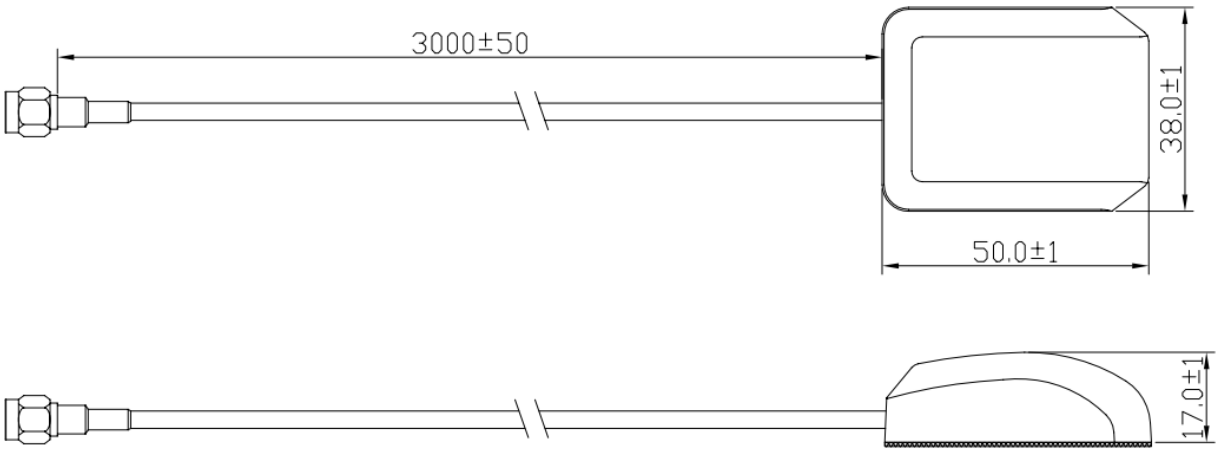


Antenna gain varies with cable length

1559-1610 MHz GNSS ACTIVE ANTENNA

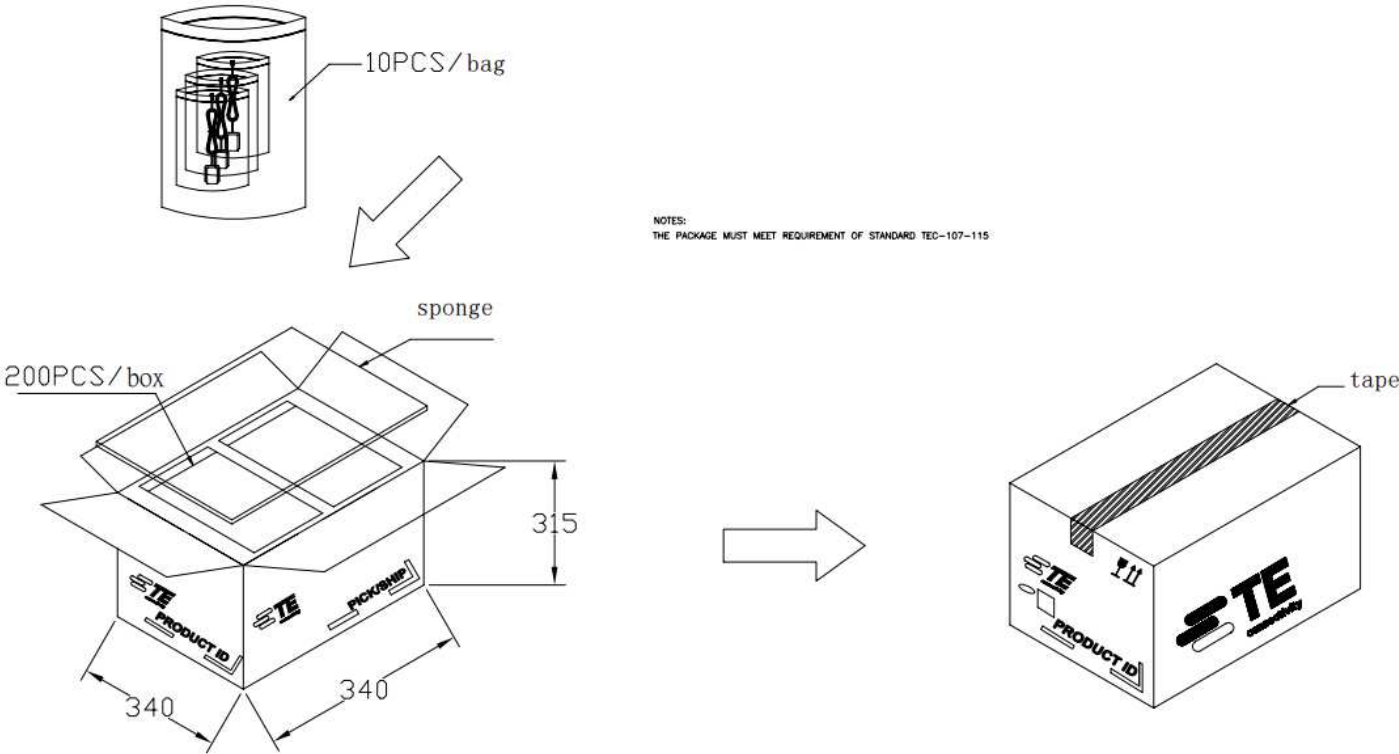
Standard Antenna Solutions

DIMENSIONS



Dimensions: mm  
Diagram is not to scale

PACKAGING



# 1559-1610 MHz GNSS ACTIVE ANTENNA

Standard Antenna Solutions

## TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
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For phone numbers in other countries, go to [te.com/support-center](https://te.com/support-center)

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