



# 1559-1610 MHz GNSS ACTIVE ANTENNA

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

### **RF SPECIFICATIONS**

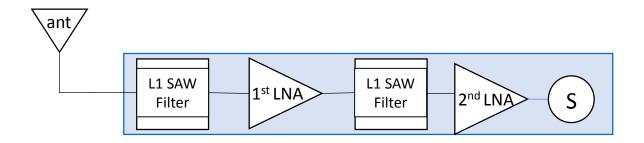
Frequency Range (MHz)	1559 - 1610	
VSWR	< 1.9:1	
System Gain at Zenith @ 5V	Typ. 24.7 ~ 29.4 dBic	
Axial Ratio at Zenith	Typ.1.89 dB	
Average Gain (Cable loss included)	21.51 dBic	
Noise Figure	Typ. 1.4 dB @ 5V	
Group Delay @ Zenith Variation Across Single Constellation(ns)	20.1	
LNA (Voltage & Current)	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**

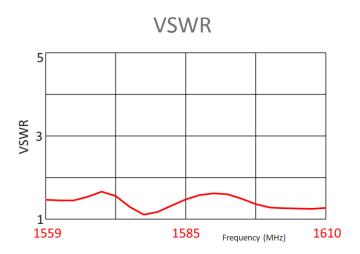
Size	50.0 mm x 38.0 mm x 17.0 mm	
Weight	< 68.25 g	
Mounting	External chassis mounting	
Mating Connector	SMA	
Cable	RG-174	
Operating Temperature	-40 to +85°C	
Storage Temperature	-40 to +85°C	
Hazardous Materials	A certificate of conformance is available from the product page on TE website.	

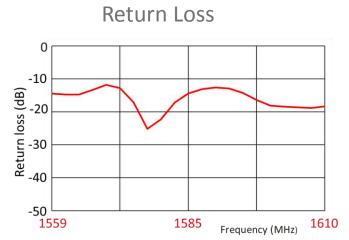
### **OUT OF BAND ATTENUATION**

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		

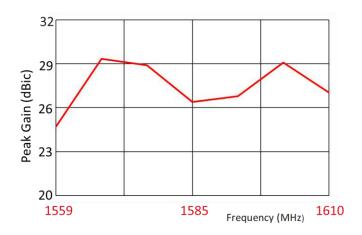


### **RF DATA**



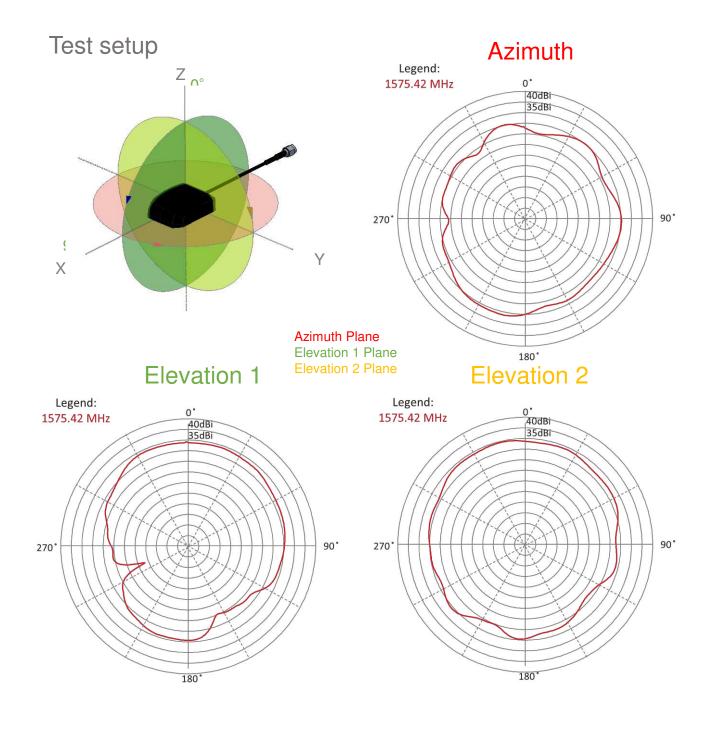


#### Peak Gain



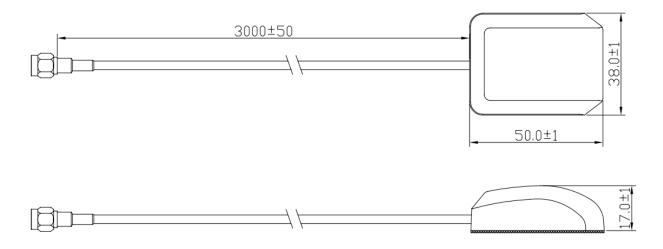
Antenna gain varies with cable length

### **RADIATION PATTERN**



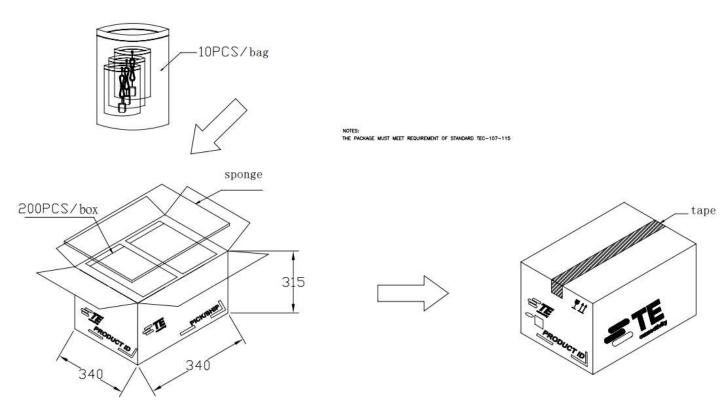
Antenna gain varies with cable length

# **DIMENSIONS**



Dimensions: mm Diagram is not to scale

# **PACKAGING**



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Standard Antenna Solutions

#### TE TECHNICAL SUPPORT CENTER

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