



## L1G1A-STD

The L1G1A-STD antenna works as an active GNSS Timing Reference Antenna for applications covering GPS L1, GLONASS G1 and GALILEO E1.

### Key Features

- Delivers L1/G1/E1 carrier frequency signals to GNSS synchronization modules and receivers
- Excellent filtering, with narrow bandwidth to preserve the GNSS signal and mitigate unwanted signals near the L1/G1/E1 carrier
- Lightning protection on the antenna element
- Integrated low noise amplifier with 30dB gain standard

### Related Products

- L1A, L1P, L1G1A, L1G1P, S14GT, S18GT, RMS216, RMS232



### Key Benefits

- Optimum signal quality with low noise and high gain
- Designed to support long-lasting, trouble free deployment
- Durable, unobtrusive cover protects against UV, rain, lightning or chemicals
- Lightning surge protection to EN6100-4-5, 4KA, 8/20  $\mu$ s

**Electrical Specifications**

Operating Temperature -54°C to 71°C

Parameter	Conditions	Min	Typ	Max	Units
<b>Frequency Range (Passband)</b>	GPS L1 GLONASS G1 Galileo E1	1559	1575.42	1610	MHz
<b>Out Impedance</b>			50		$\Omega$
<b>Element Gain</b>	GPS L1 GLONASS G1 Galileo E1	> +3 >+3 > +3			dBiC
<b>LNA Gain</b>	GPS L1 GLONASS G1 Galileo E1	> +30 > +30 > +30			dB
<b>Output SWR</b>	Output = 50 $\Omega$			2:1	—
<b>Required DC Input Voltage</b>		3		16	VDC
<b>LNA Current</b>	Output = 50 $\Omega$			50	mA
<b>LNA OPIdb Compression</b>			10		dBm
<b>LNA OIP3</b>			15		dBm
<b>Noise Figure</b>				3.0	dB
<b>Polarization</b>	Right Hand Circular				
<b>Axial Ratio at Peak</b>	< 6 dB Max				
<b>Beam Width</b>	75 +/-5 ° at -3dB from Peak (Free Space)				
<b>Altitude</b>	50,000 ft				
<b>Lightning Protection</b>	EN6100-4-5, 4KA, 8/20 $\mu$ s		4		KA

