

Log-Periodic Antenna

2 to 18 GHz, SMA connector

DESCRIPTION

Anteral's Log-periodic Antennas (LOGP) are dipole array antennas which exhibits extremely broadband bandwidth with frequency independent properties in its design band. Dipoles are printed on a RF dielectric substrate making this antenna of light weight but robust design. The antenna is fed by a SMA gold coated connector that assures long durability.

The LOGP-SMA-218 model operates between 2 and 18 GHz with an average gain of 7 dBi and VSWR below 1.9 in the whole band.

The antenna can be order with a protective radome (LOGP-SMA-218-R) or without it (LOGP-SMA-218). This radome is made of rigid polyurethane foam which provides protection versus water, fire, chemical agents and mechanical damage to the electrical parts. The radome is attached to an aluminium cylinder with 3/8 18 UNC standard thread for clamping purpose.

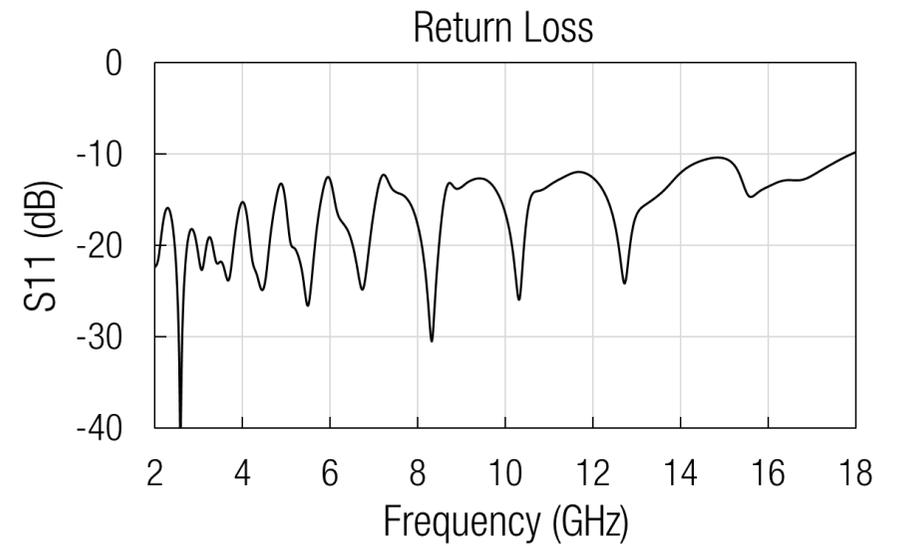
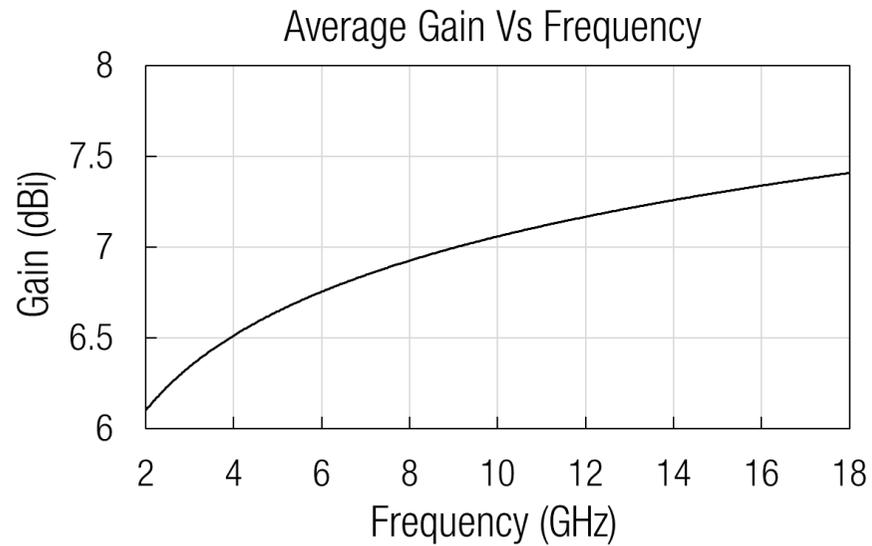
APPLICATIONS

The Log-periodic Antenna is useful for any application where linearly polarized radiation, moderate gain and stable impedance and radiation pattern performance over a wide bandwidth is required. Popular applications include terrestrial television, EMC measurement, wireless communications and electronic warfare.

Anteral also offers their **Standard Gain Horns** for laboratory test measurements, electromagnetic measurements and gain calibration.

ELECTRICAL SPECIFICATIONS

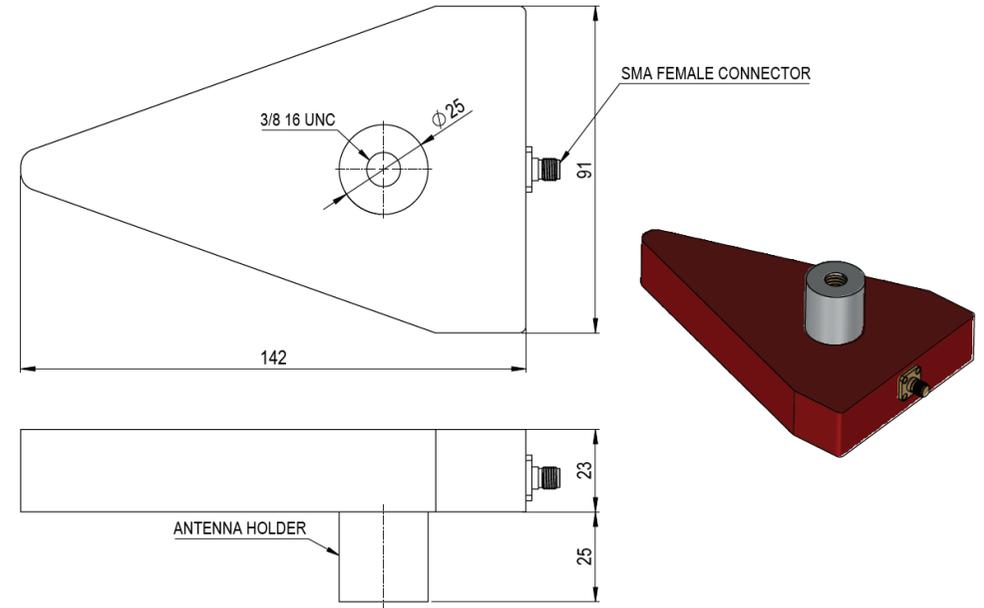
Parameter	Minimum	Typical	Maximum
Frequency	2 GHz	10 GHz	18 GHz
Gain	6.1 dBi	7 dBi	7.5 dBi
3 dB Beamwaist, E-plane		70 deg	
3 dB Beamwaist, H-plane		110 deg	
S11		-15 dB	-10 dB



MECHANICAL SPECIFICATIONS

Parameter	Description
Antenna connector	SMA female
Dimensions	142 x 91 x 23
Total weight	115 g
Substrate Material	I-Tera RF substrate
Radome Material	Rigid Polyurethane (400 kg/m ³)
External Color	Ruby Red

MECHANICAL OUTLINE



Additional notes

Gain and return loss data are simulated. Actual values could vary slightly.

The return loss performance of all items is checked before delivery to fulfill specifications.

The antenna holder can be customized at request.