

MODEL NUMBER:
DRHA67G

**6 TO 67 GHz BROADBAND
HORN ANTENNA**

DESCRIPTION:

Model DRHA67G is a dual-ridged broadband horn antenna that operates from 6 to 67 GHz. The antenna offers a typical gain of 15 dBi and a typical 3 dB beamwidth of 22° on both the E-plane and H-plane, respectively. The antenna supports linear polarized waveforms. The antenna features a compact design and provides an M3 screw and a mounting plate for flexible mounting capacity. The RF port is equipped with a female 1.85 mm (V) connector.

FEATURES:

- Broadband Operation
- Coaxial Connector for RF Input
- Linear Polarization
- Good Impedance Match

APPLICATIONS:

- Antenna Ranges
- Antenna Gain Measurements
- System Setups

ELECTRICAL SPECIFICATIONS:

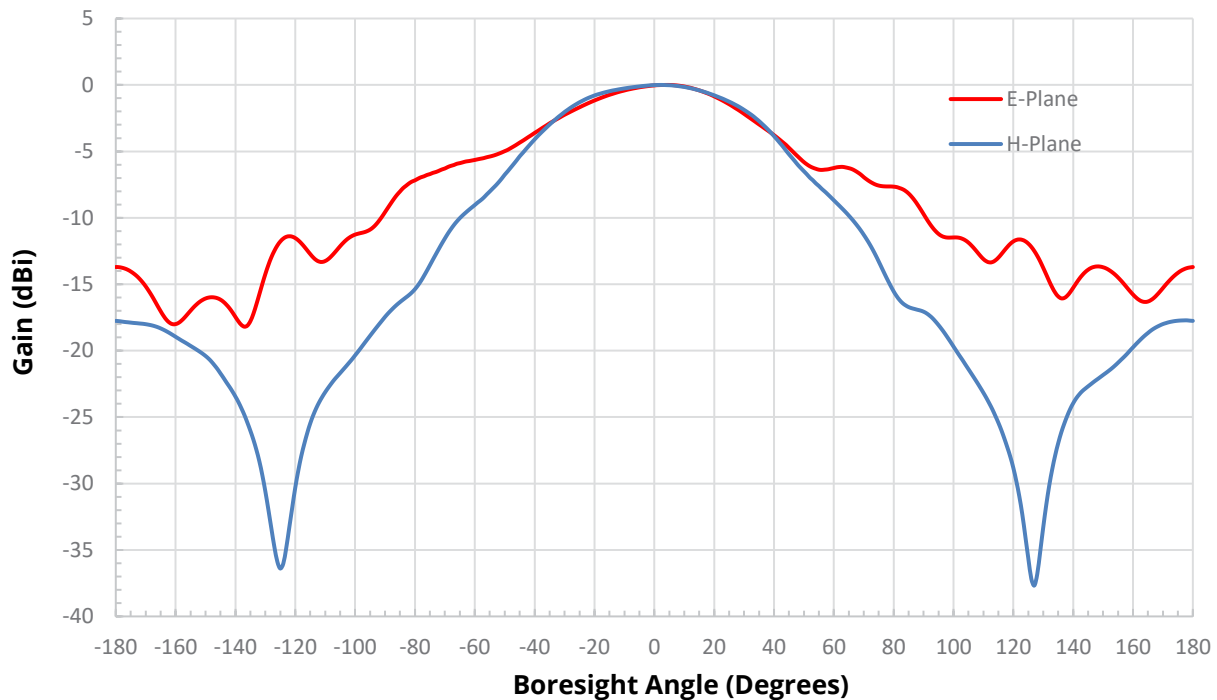
PARAMETER	MINIMUM	TYPICAL	MAXIMUM
Frequency	6 GHz		67 GHz
Gain		15 dBi	
Polarization		Linear	
E-Plane 3 dB Beamwidth		22°	
H-Plane 3 dB Beamwidth		22°	
E-Plane Sidelobe Levels		-10 dB	
H-Plane Sidelobe Levels		-15 dB	
Return Loss		12 dB	
Cross Polarization	20 dB	25 dB	
Power Handling			5 W (CW)
Specification Temperature		+25 °C	
Operating Temperature	-40 °C		+85 °C

TERMINAL STYLES AVAILABLE

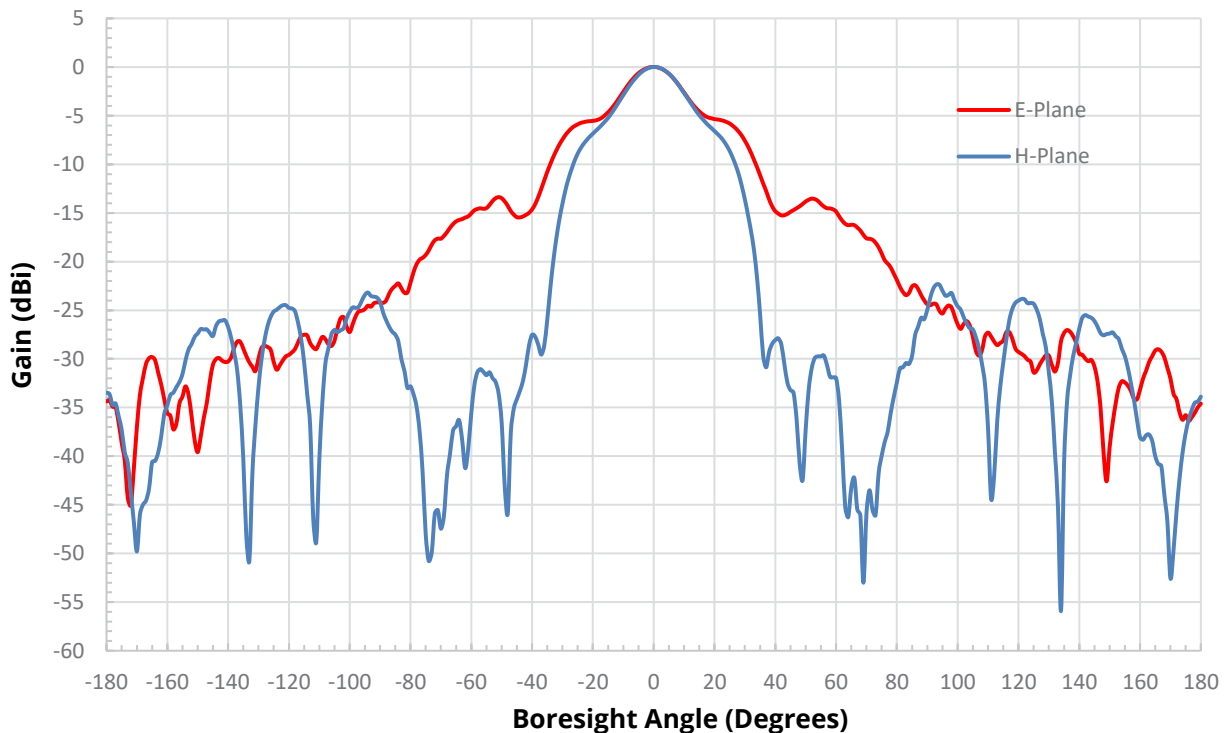
ITEM	SPECIFICATION
Antenna Port	V(F)
Mounting	M3 Screw and Mounting Plate
Material	Aluminum
Antenna Finish	Yellow Chem Film, Black Paint
Weight	1.8 Oz
Size	1.91" (L) X 1.28" (W) X 1.26" (H)
Outline	AV-C15-DR-RS1

6 TO 67 GHZ BROADBAND HORN ANTENNA

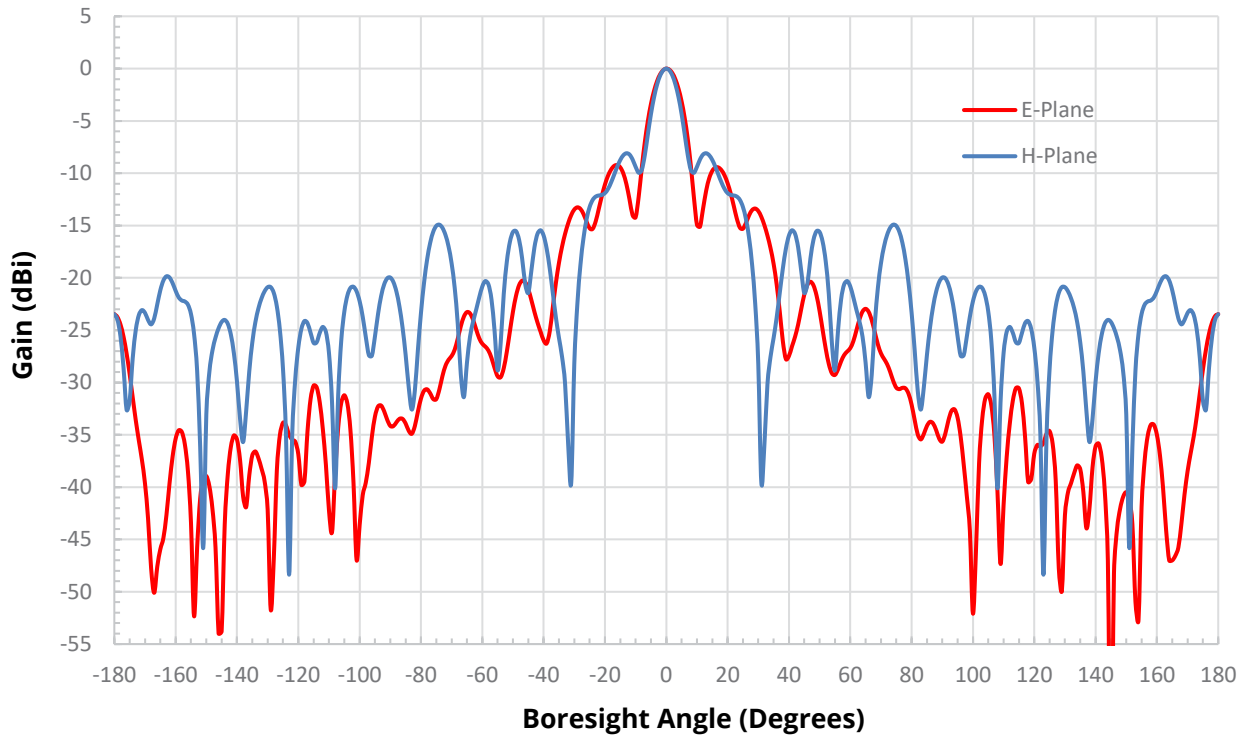
Typical Antenna Pattern @ 6 GHz



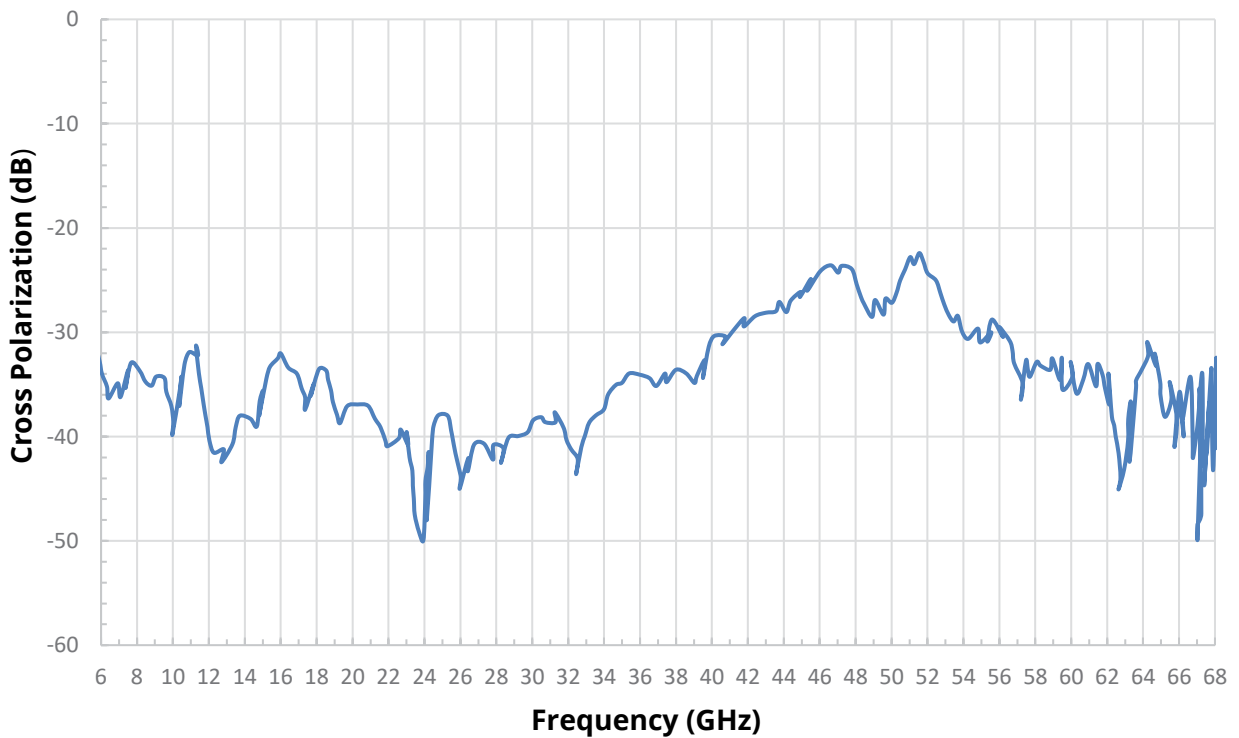
Typical Antenna Pattern @ 36.5 GHz



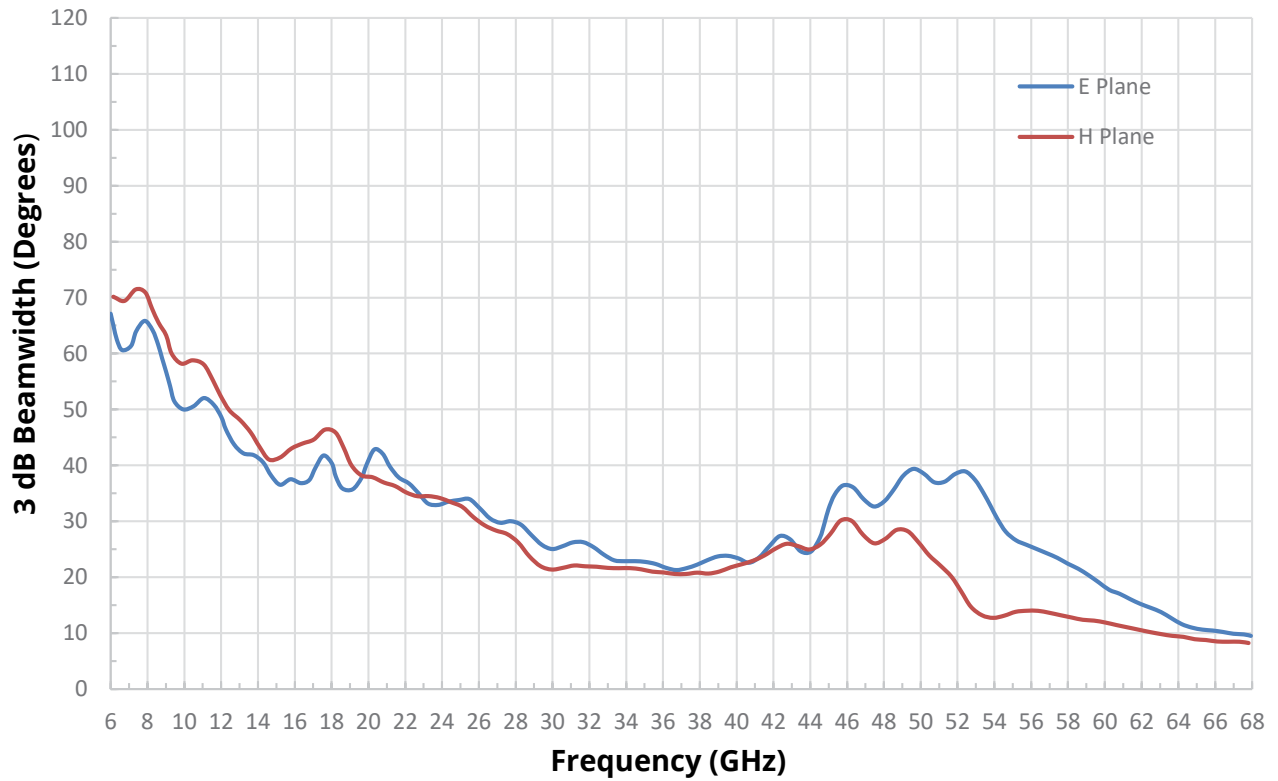
Typical Antenna Pattern @ 67 GHz



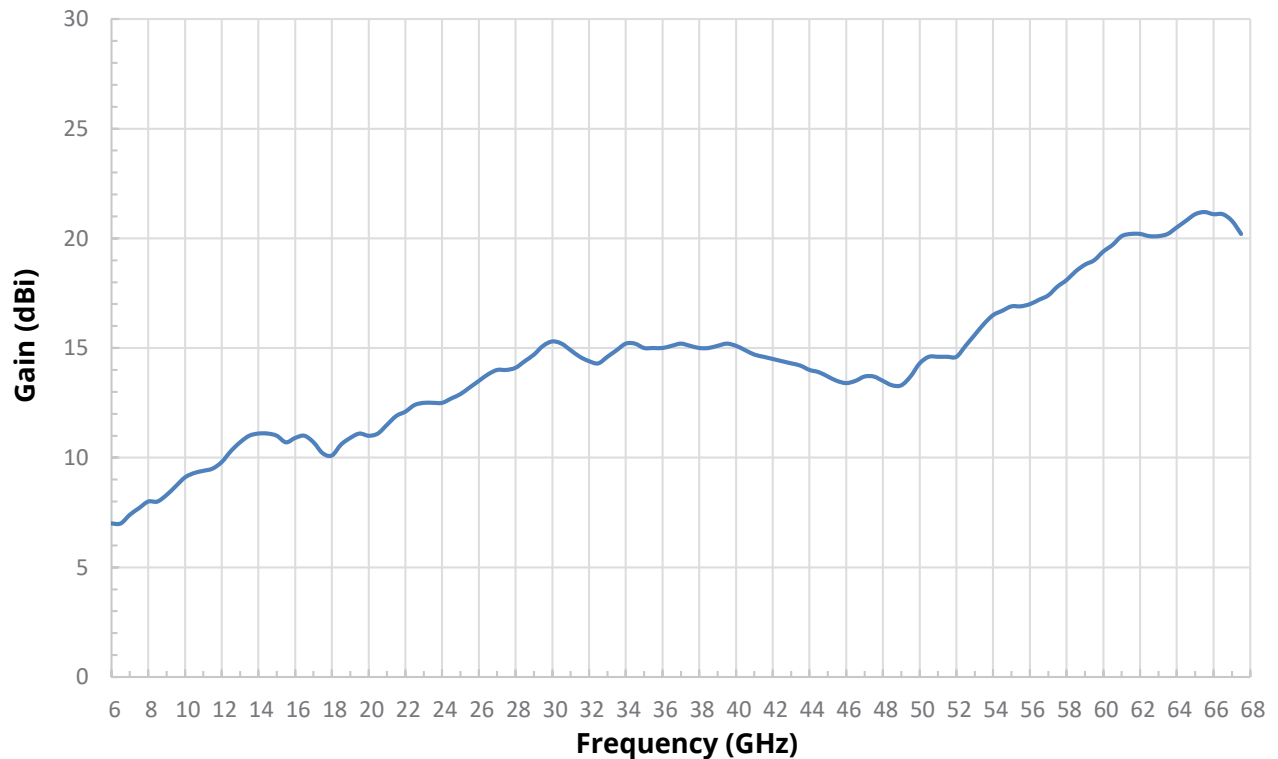
Typical Cross Polarization vs Frequency



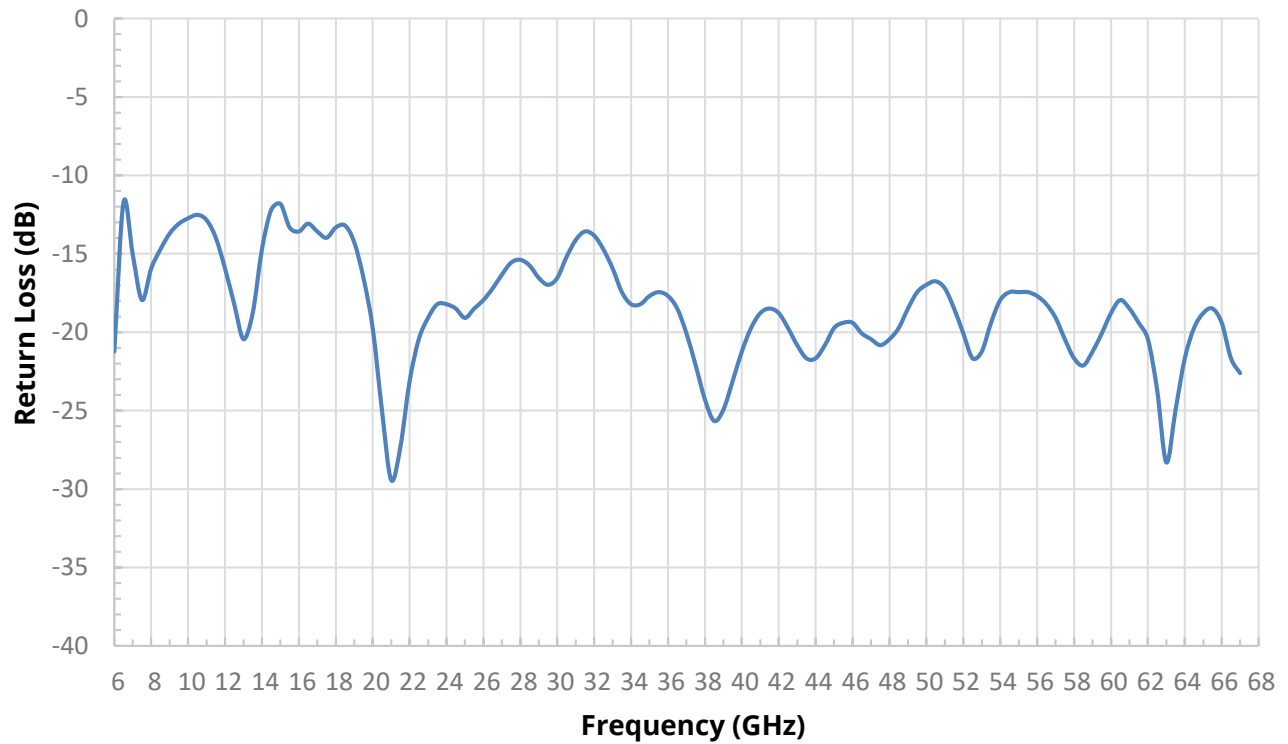
Typical 3 dB Beamwidth vs Frequency



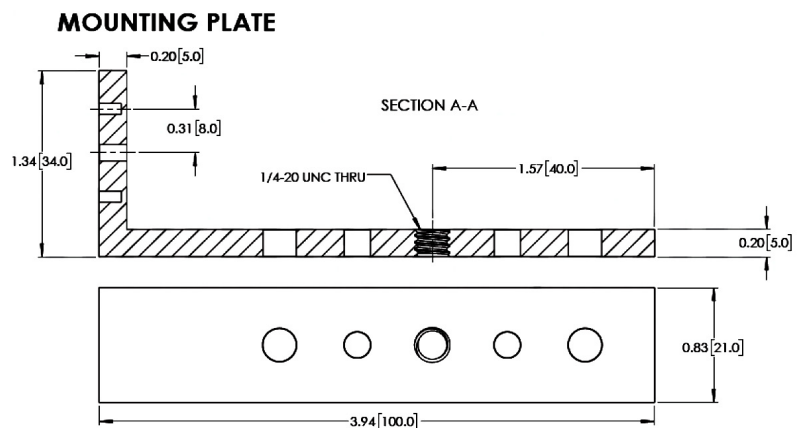
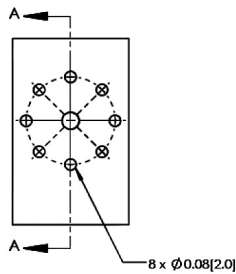
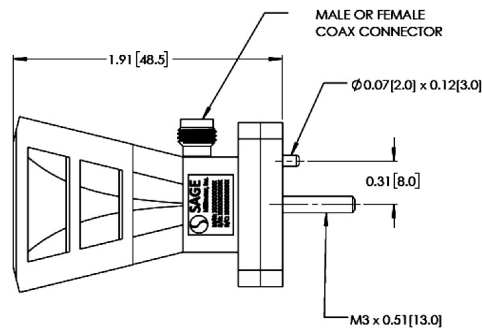
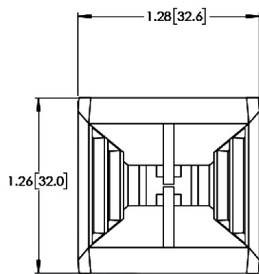
Typical Gain vs. Frequency



Typical Return Loss vs. Frequency



MECHANICAL OUTLINE: (UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES [MILLIMETERS])



NOTE:

- All data presented is collected from a sample lot. Actual data may vary unit to unit.
- All testing was performed under +25 °C room temperature.
- The EMC Shop, LLC reserves the right to change the information presented without notice.

CAUTION:

- Any foreign objects in the structure will cause performance degradation and possible devicedamage.
- Proper torque, 8.0 ± 0.15 inch-pounds (0.90 ± 0.02 Nm), should be applied. The EMC Shop, LLC torque wrench, model SCH-08008-S1, is highly recommended.

