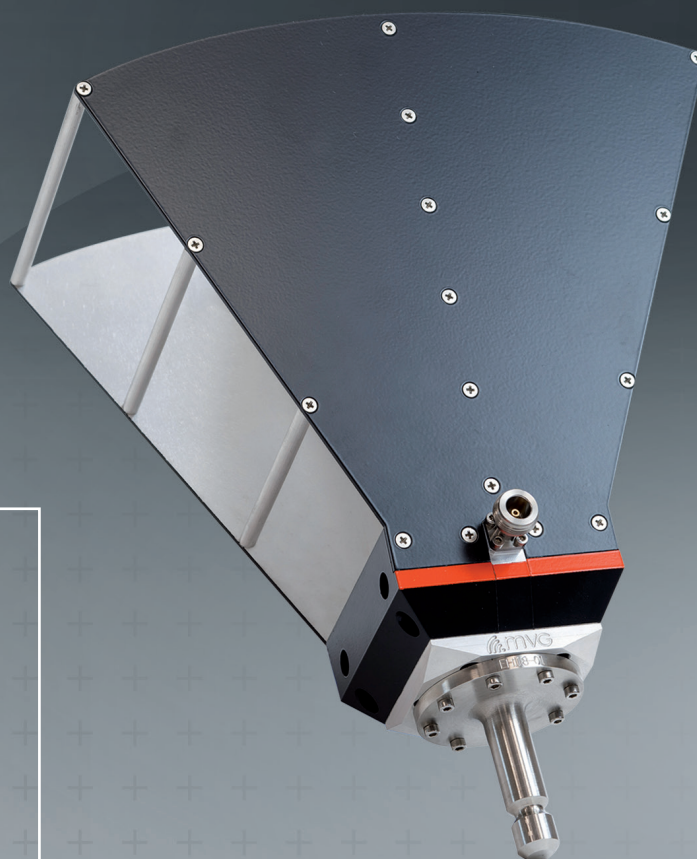


+ EMC Dual-Ridge Horn

EH118 (1 – 18 GHz)



SOLUTION FOR

Radiated emissions testing according to

- ANSI 63.4
- CISPR 11, 12, 13, 16-1-4, 16-1-6, 25, 32
- EN 61000-6-3, EN 61000-6-4
- FCC Part 15, 18, 25, 90
- IEC 60601-1-2
- MIL-STD 461
- RTCA/DO 160

MAIN FEATURES

Technical performance

- Single linear polarization
- Smooth / balanced gain with frequency
- Low return loss / VSWR
- Ultra wide bandwidth (18:1)

Design

- Unique design preventing the excitation of unwanted high order modes in the aperture
- Well defined smooth radiation pattern throughout the operational bandwidth
- Stiff/robust and lightweight mechanical design
- Precision machined
- High reliability N coaxial connector

PRODUCT CONFIGURATION

Equipment

- Storage box
- Standard axial mounting interface
- Custom mounting interface

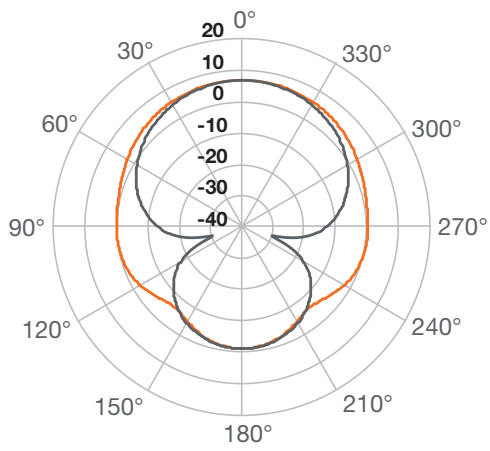
Services

- Calibration
- Maintenance

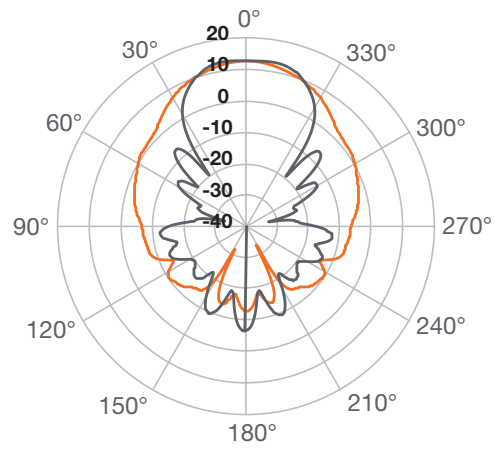
Delivered documents

- Technical description document
- Calibration certificate

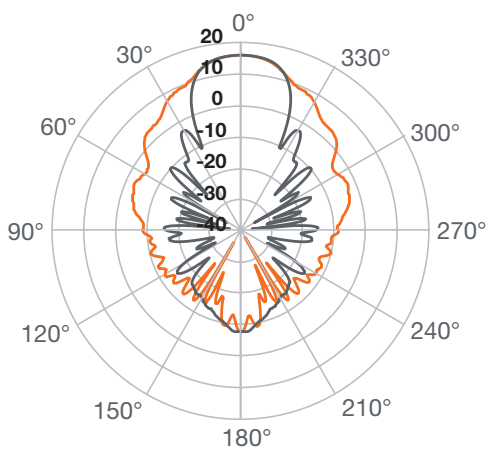
Far-field radiation pattern



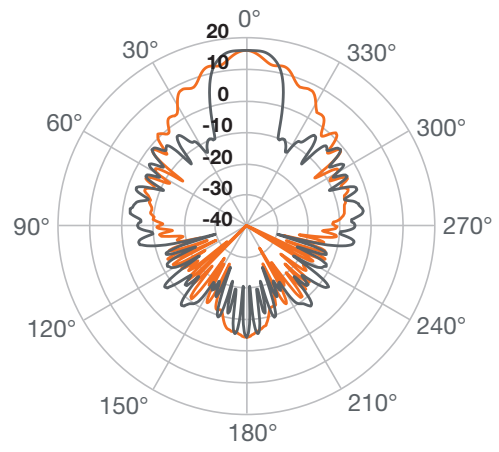
1 GHz



6 GHz



12 GHz

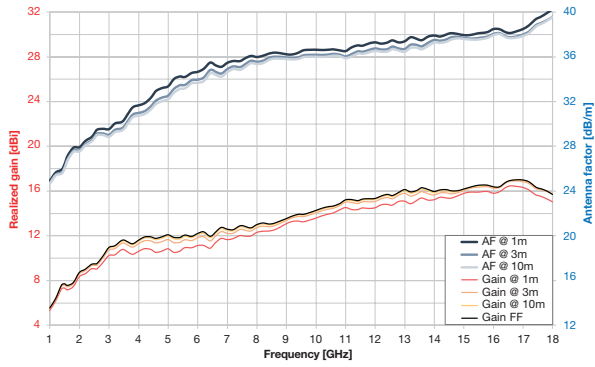


18 GHz

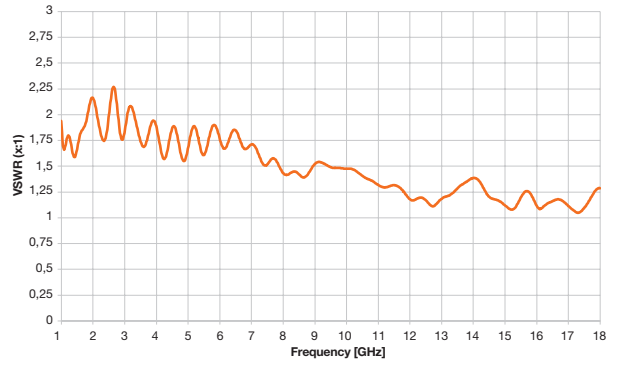
— E-plane

— H-plane

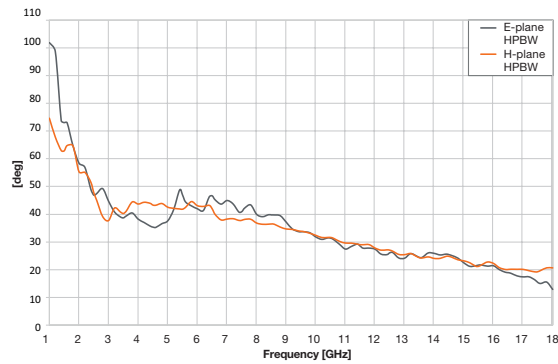
Gain / Antenna factor



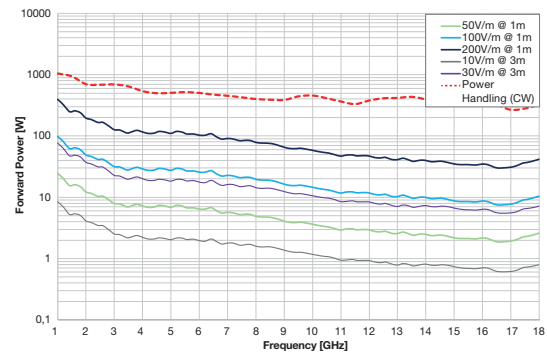
VSWR



-3 dB beamwidth



Power handling (CW) / Forward power



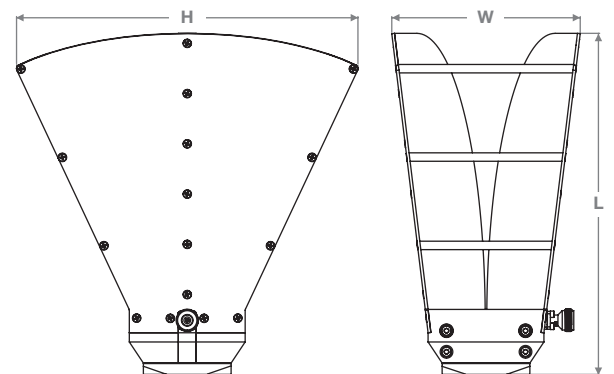
Electrical characteristics

Type of antenna	EMC Dual-Ridge Horn
Frequency range	1 – 18 GHz
Realized gain	5.8 – 17 dBi
Antenna factor	24 – 39 dB/m
E-plane HPBW (2x)	102 – 13 deg
H-plane HPBW (2x)	75 – 21 deg
VSWR	1.1 to 2.3 (average 1.5) : 1
Polarization	Single linear
Impedance	50 Ohms
Power handling (CW)	1 kW @ 1 GHz 400 W @ 9 GHz 250 W @ 18 GHz

Mechanical characteristics

Dimensions (H x W x L)	24.3 x 13.4 x 24.3 cm
Weight (approx.)	1.7 Kg
Material	Aluminum
Surface treatment	Surtec 650®
Coatings	Polyurethane paint
RF connector	N Female – Southwest 312-14SF® (SMA Female optional – Southwest 212-503SF®)

Dimensional drawing



MVG - Testing Connectivity for a Wireless World

The Microwave Vision Group offers cutting-edge technologies for the visualization of electromagnetic waves. Enhancing the speed and accuracy of wireless connectivity testing, as well as the performance and reliability of anechoic and EMC technologies, our systems are integral to meeting the testing challenges of a fully connected world.



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