

+ EMC Dual-Ridge Horn

EH1840 (18 – 40 GHz)



SOLUTION FOR

Radiated emissions testing according to

- FCC
- MIL-STD-461
- SAE ARP 958

MAIN FEATURES

Technical performance

- Single linear polarization
- Smooth / balanced gain with frequency
- Low return loss / VSWR

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 2.92 mm coaxial connector

PRODUCT CONFIGURATION

Equipment

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

Services

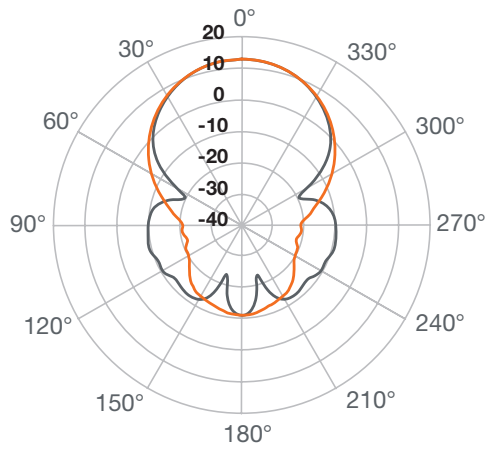
- Calibration
- Maintenance

Delivered documents

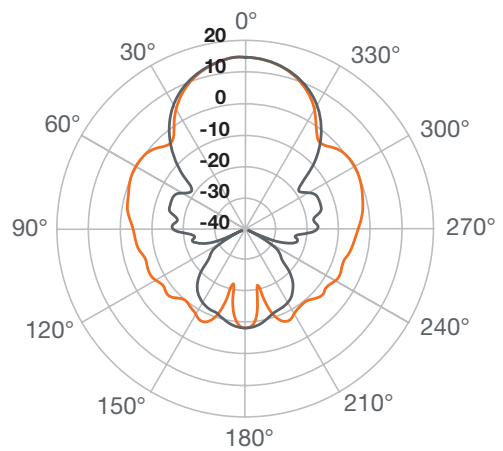
- Technical description document
- Calibration certificate

Included Optional

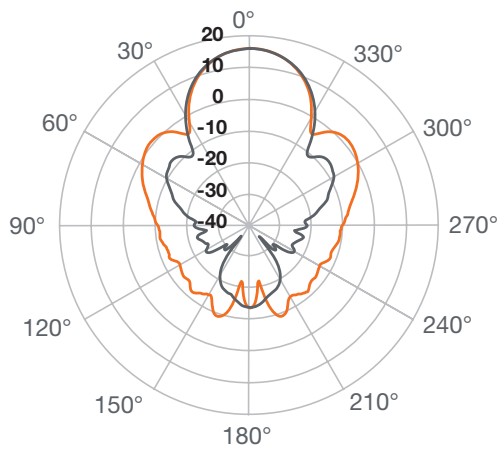
Far-field radiation pattern



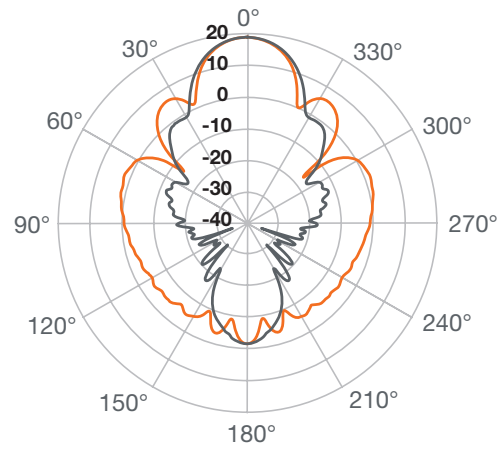
18 GHz



24 GHz



30 GHz

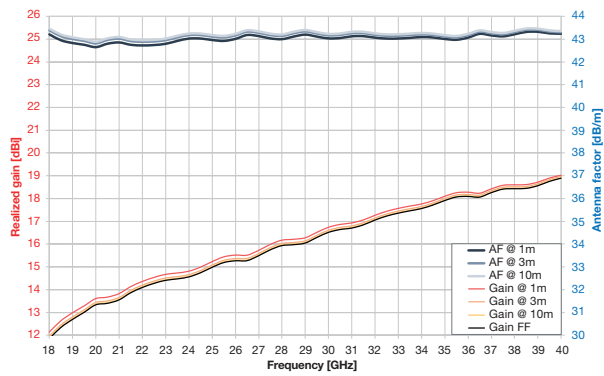


40 GHz

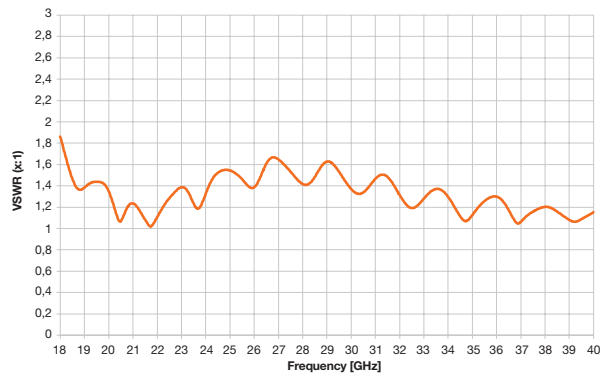
— E-plane

— H-plane

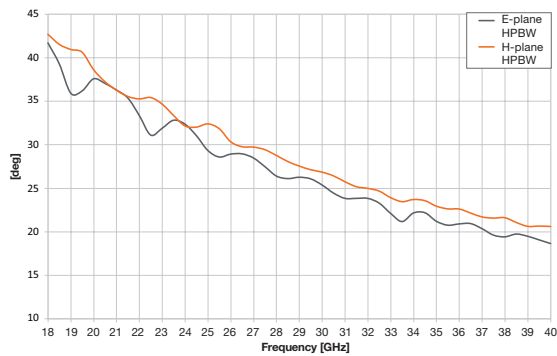
Gain / Antenna factor



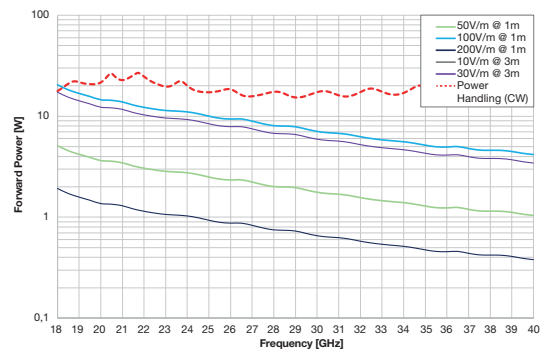
VSWR



-3 dB beamwidth



Power handling (CW) / Forward power



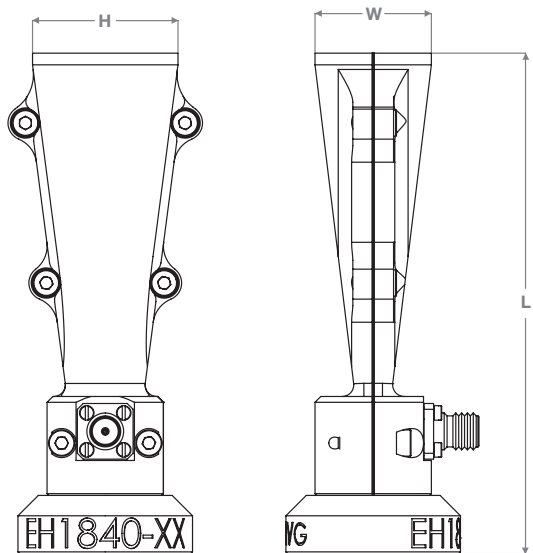
Electrical characteristics

Type of antenna	EMC Dual-Ridge Horn
Frequency range	18 – 40 GHz
Realized gain	13 – 19 dBi
Antenna factor	42 – 43 dB/m
E-plane HPBW (2x)	18 – 42 deg
H-plane HPBW (2x)	20 – 41 deg
VSWR	1.1 to 1.9 (average 1.4) : 1
Polarization	Single linear
Impedance	50 Ohms
Power handling (CW)	15 W average

Mechanical characteristics

Dimensions (H x W x L)	2.5 x 2 x 8.6 cm
Weight (approx.)	0.5 Kg
Material	Aluminum
Surface treatment	Surtec 650®
Coatings	Polyurethane paint
RF connector	2.92 mm Female – Southwest 1012-16SF®

Dimensional drawing



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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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