# J 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

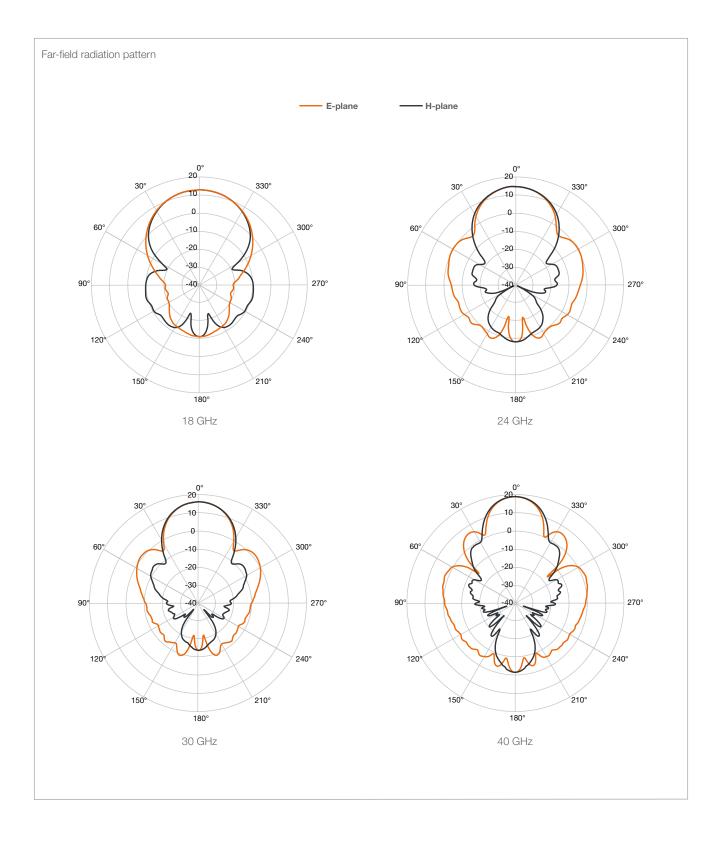
- Storage box
- Standard axial mounting interface
- □ Custom mounting interface
- Antenna tripod

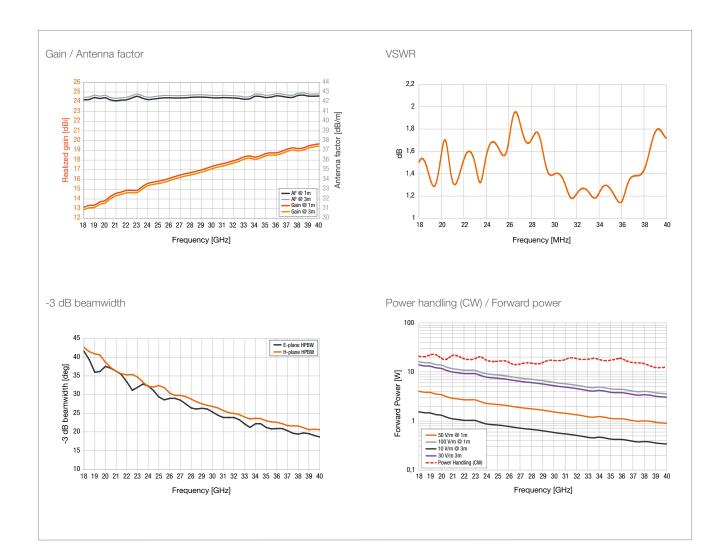
#### **Services**

- Calibration
- Maintenance

#### **Delivered documents**

- Technical description document
- ☐ Calibration certificate
- Included □ Optional



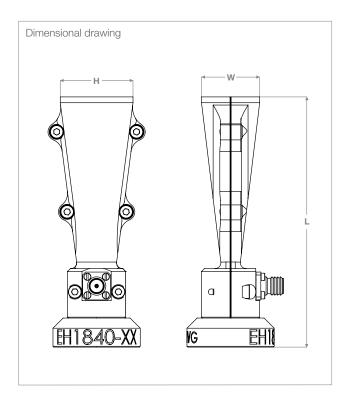


#### **Electrical characteristics**

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®



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