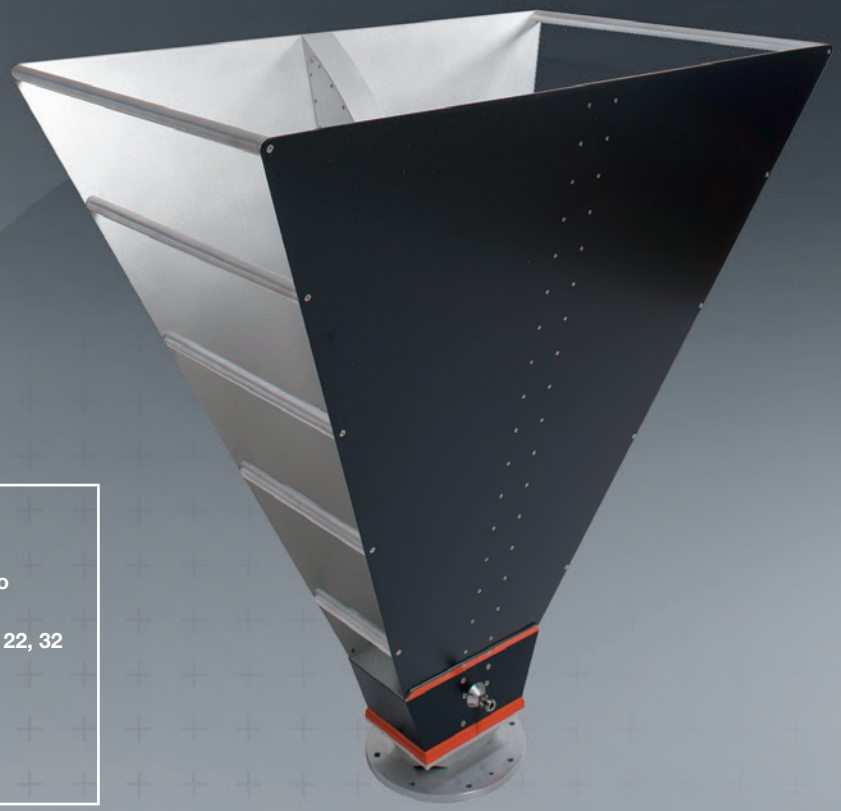
EMC Dual-Ridge Horn

EH022 (0.2 – 2 GHz)



SOLUTION FOR

Radiated emissions testing according to

- **ANSI 63.4**
- **CISPR 11, 12, 13, 14-1, 16-1-4, 16-2-3, 22, 32**
- **EN 61000-6-3, EN 61000-6-4**
- **IEC 60601-1-2, 60533, 61326,**
- **MIL-STD 461**
- **RTCA/DO 160**

MAIN FEATURES

Technical performance

- Single linear polarization
- Smooth/balanced gain with frequency
- Low return loss / VSWR
- Wide Bandwidth (10:1)

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 mounting interface
- □ Custom mounting interface

Services

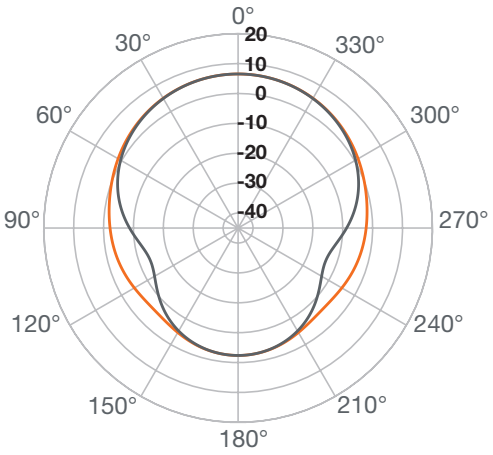
- □ Calibration
- □ Maintenance

Delivered documents

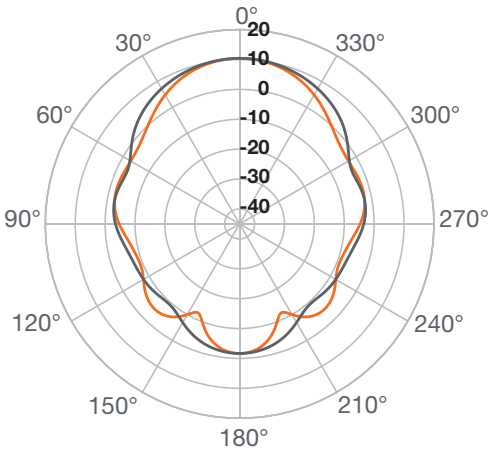
- ■ Technical description document
- □ Calibration certificate

■ Included □ Optional

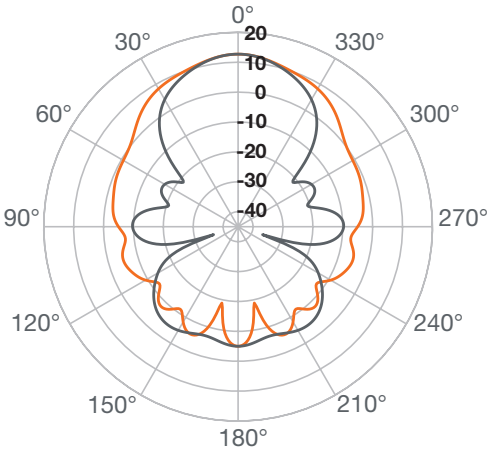
Far-field radiation pattern



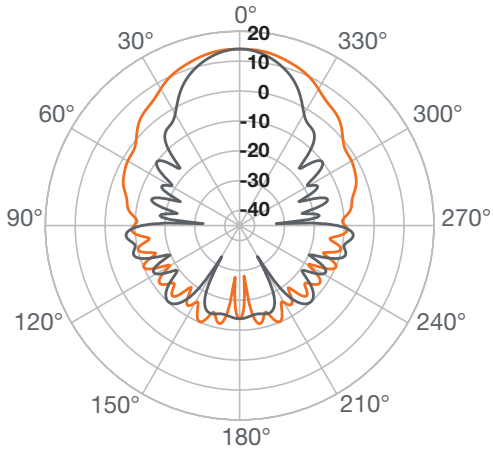
0.2 GHz



0.5 GHz



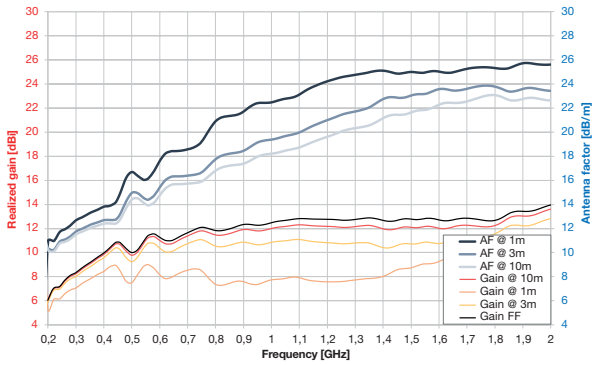
1 GHz



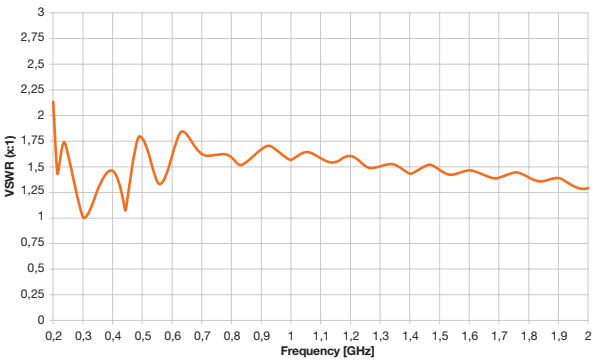
2 GHz

E-plane H-plane

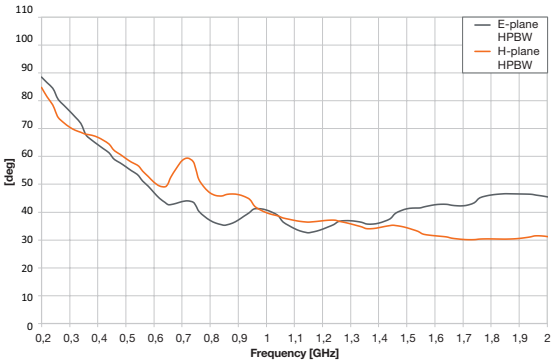
Gain / Antenna factor



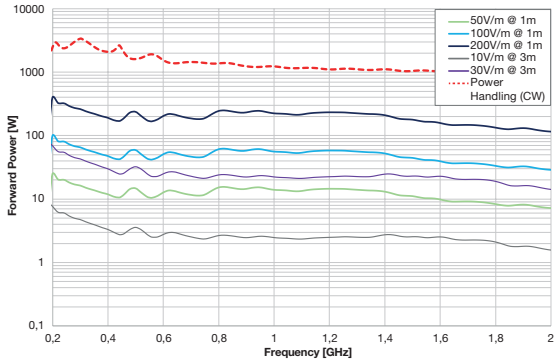
VSWR



-3 dB beamwidth



Power handling (CW) / Forward power



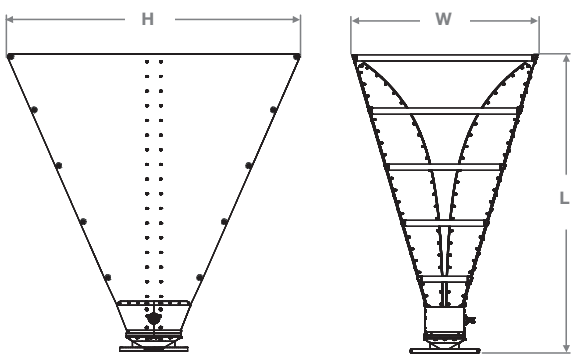
Electrical characteristics

Type of antenna	EMC Dual-Ridge Horn
Frequency range	0.2 – 2 GHz
Realized gain	6 – 14 dBi
Antenna factor	7 – 28 dB/m
E-plane HPBW (2x)	88 – 42 deg
H-plane HPBW (2x)	85 – 25 deg
VSWR	1.1 to 1.9 (average 1.5) : 1
Polarization	Single linear
Impedance	50 Ohms
Power handling (CW)	2.5 kW @ 0.2 GHz 1.2 kW @ 1 GHz 1 kW @ 2 GHz

Mechanical characteristics

Dimensions (H x W x L)	93.4 x 69.4 x 97.8 cm
Weight (approx.)	16.5 Kg
Material	Aluminum
Surface treatment	Surtec 650®
Coatings	Polyurethane paint
RF connector	N Female – Southwest 312-14SF®

Dimensional drawing



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