OEWG1831AA Datasheet





Special Purpose Antenna

Open-ended rectangular waveguides are commonly used as near-field probes in planar near-field and cylindrical near-field antenna measurements. The probe design is based upon standard rectangular waveguides and consequently, the probes can be manufactured for any standard frequency band. The radiation characteristics of OEWG can be well predicted by analytical formulas that facilitate a simplified probe pattern correction.

OEWG is equipped with an integrated coaxial connector, absorber shield, and mechanical interface with a standardized mounting flange. The OEWG1831AA is operating on frequencies from 17.7 GHz up to 31 GHz.

Features and Specifications



Technical Performance

Wide bandwidth Low return loss Individual calibration



Design and Surface Treatment

Corrosion-resistant coating Includes standard mount



Manufacturing Technology

Manufactured using a high grade aluminum alloy Extremely durable High quality K type coaxial connector



Product Packaging Includes

Linear polarized openended waveguide antenna

Product Parameters

PRODUCT IDENTIFICAT	ION
Product Name	OEWG1831AA
Product Category	Special Purpose Antenna
ELECTRICAL SPECIFICA	TIONS
Frequency Range	17.7 GHz – 31 GHz
VSWR (max.)	2
VSWR (avg.)	1.5
Impedance	50 Ohm
Connector	К
Power (CW / Peak)	25 W / 50 W
Antenna Factor	49 – 52 dB/m
Polarization	Linear

PHYSICAL SPECIFICATIONS	
Width	390 mm (15.354 in)
Height	170 mm (6.693 in)
Depth	170 mm (6.693 in)
Weight	1.58 kg (3.483 lb)
OPERATING CONDITIONS Rated Temperature Range	0°C – +50°C
	0°C – +50°C -20°C – +70°C
Rated Temperature Range	



Packaging and Accessories

What's in a box

- OEWG1831AA Antenna
- Factory calibration certificate
- Full calibration report of each antenna
- QR code accessing online portal
- Calibration test dataset (available online)
- Universal antenna mount

Accessories

• Standard mounting flange



Factory calibration report

Custom services

- Custom mounting solutions
- Custom calibration data

Manufacturer Information

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