

High-Power Omni Antenna

VERSION: 2.6

500 – 1000 MHz

Product Code: MONO-A0023



SPECIFICATIONS:

Electrical:	
Frequency range	500 – 1000 MHz
VSWR	< 2:1
Nominal input impedance	50 Ω
Radiation pattern	Monopole, omni-directional
Connector	7/16 female
Feed power handling	1000 W
Gain on horizon	2 dBi typical, depending on groundplane
Polarisation	Linear
Mechanical:	
Dimensions (d x h)	205 mm x 160 mm
Total mass	1 kg
Mounting method	Four M8 bolts on 170 mm PCD
Groundplane requirement	Flat on vehicle top, 1 m ² clear area
Environmental: designed to meet the following specifications	
Wind survival on vehicle	160 km/h
Temperature range	-10 °C to +55 °C
Water and dust resistance	IP 67

PRODUCT FEATURES:

- Wide bandwidth covered in a single antenna
- Low VSWR, high gain over the band
- 1000 W feed power handling
- Passive construction
- Full-gain antenna, no lossy components used for matching

APPLICATIONS:

- Wideband monitoring
- High-power applications

The antenna can be customised if required, for different frequency ranges or greater power handling.

PRODUCT DESCRIPTION:

This wideband high-power transmit antenna is designed for full-coverage high-power applications from 500 to 1000 MHz. Housed in a small, rugged radome, the antenna is mounted on a vehicle roof or elevated groundplane.

The antenna element inside has excellent gain and VSWR over the full-band. No lossy matching network is used, the antenna structure is designed to work over the full frequency range, giving maximum radiation, and allowing high transmitter powers to be used.

The antenna can be used for reception at lower frequencies with reasonable gain.

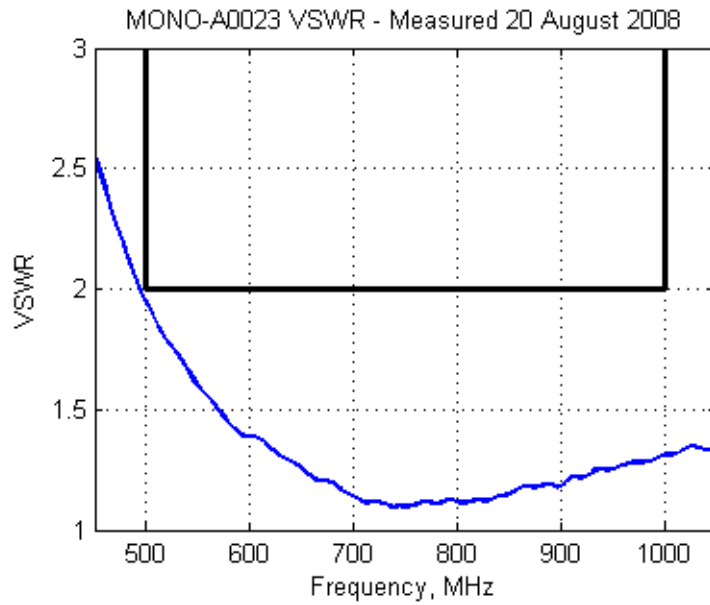
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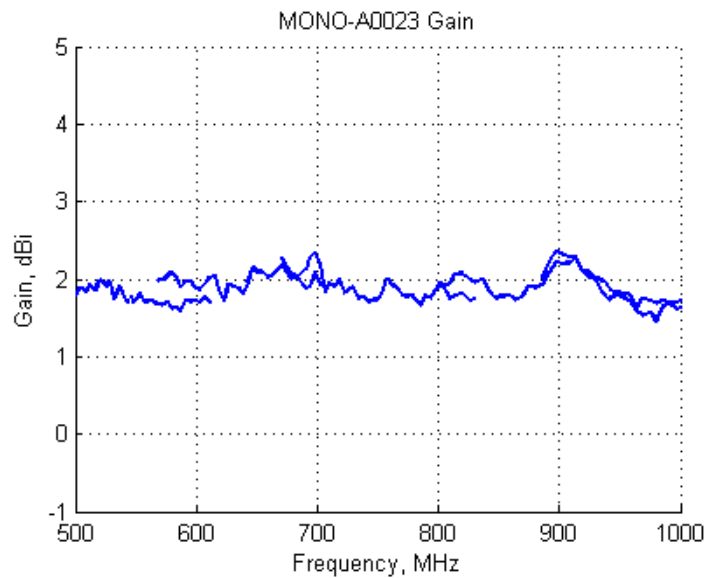
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Measured VSWR:



Measured gain:



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