

High-Power Omni Antenna

100 - 600 MHz

Product Code: MONO-A0022

SPECIFICATIONS:

100 – 600 MHz	
< 2.5:1	
50 Ω	
7/16 female	
1000 W CW	
Monopole, omni-directional in azimuth	
3.4 dBi (typical), 3 dBi (minimum)	
0 dBi monopole (typical), -2 dB	
monopole (minimum)	
Vertical	
Mechanical:	
630 mm x 500 mm	
15 kg	
Eight M8 bolts	
Flat on vehicle top. 1.5 m x 1.5 m	
clear area	
o meet the following specifications	
-40 °C to +70 °C	
160 km/h	
IP 67	

VERSION: 2.6



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

PRODUCT APPLICATIONS:

- Wideband monitoring
- High-power applications

PRODUCT DESCRIPTION:

This wideband high-power transmit antenna is designed for full-coverage high-power applications from 100 to 600 MHz. Housed in a rugged radome, the antenna is mounted either on a vehicle roof or an elevated groundplane.

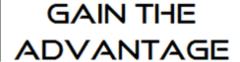
The antenna element inside the radome has excellent gain and VSWR characteristics over the full-band. No lossy matching network is used, the antenna structure is designed to work over the full frequency range, giving maximum radiation and allowing high transmitted powers to be used.

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

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



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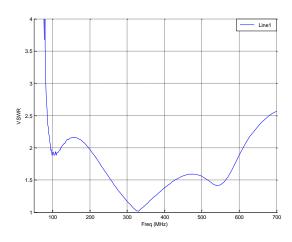
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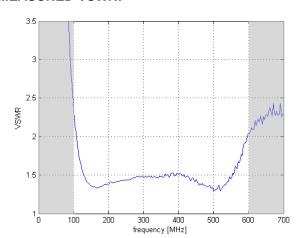
Product Code: MONO-A0022 VERSION: 2.6

VSWR AND GAIN GRAPHS:

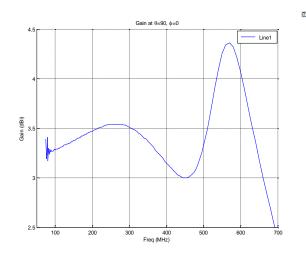
SIMULATED VSWR:



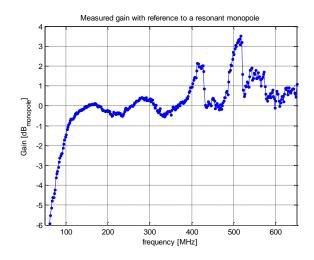
MEASURED VSWR:



SIMULATED GAIN ON INFINITE GROUNDPLANE:



MEASURED GAIN:





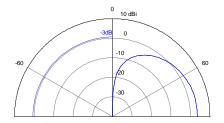
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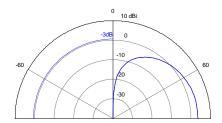
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SIMULATED ELEVATION PLOTS ON INFINITE GROUNDPLANE:

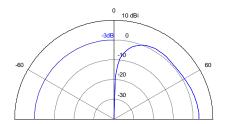
100 MHz



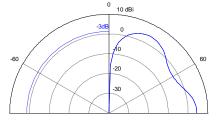
260 MHz



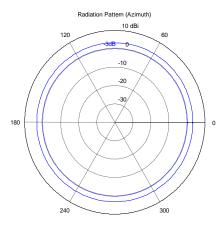
450 MHz



570 MHz



100 MHz



570 MHz

