

Wideband Omni-Directional Antenna

20 – 500 MHz

Product Code: OMNI-A0046-01

VERSION: 1.2

SPECIFICATIONS

Electrical:	
Frequency range	20 – 500 MHz
VSWR	2.5:1 over the band
Feed power handling	1.2 kW CW
Nominal input impedance	50 Ω
Connector	7/16 female
Gain	See graph
Polarisation	Vertical
Mechanical:	
Dimensions (h x d)	2307 mm x 2450 mm
Weight	18 kg
Material	Aluminium, brass, fibreglass and stainless steel
Environmental: designed to meet the following specifications	
Wind survival	160 km/h calculated
Salt fog	Designed to MIL-STD-810F method 509.4
Mechanical shock	Designed to MIL-STD-810F method 516.5 table 516.5-1 procedure 1, 40 G for 15 – 23 ms.
Operational vibration	Designed to MIL-STD-810F method 514.5 table 514.5-1 (Operational ground vehicles) figure 514.5C-1 (Highway truck vibration)
Operating temperature	-31 °C to +49 °C
Storage temperature	-33 °C to +71 °C



ELECTRICAL FEATURES:

- Wideband
- Omni-directional azimuth pattern
- High-power handling
- Optimised distributed loading is used to prevent elevation radiation pattern break up

MECHANICAL FEATURES:

- Spring loaded elements
- Waterproof
- Quick assembly
- Vehicle or shelter mountable

PRODUCT DESCRIPTION:

The OMNI-A0046-01 is an upgraded version of the well-known PA-OMNI-20500B high-power omni-directional antenna. The frequency range covered is 20 MHz to 500 MHz with a VSWR of less than 2.5:1 with the whips attached. The whips improve the performance in the 20 MHz to 50 MHz band. The antenna's profile can be reduced by removing the tactical whips where required.

AUTHORIZED USA DISTRIBUTION BY:

Cyntony Corporation
 195 Follen Road
 Lexington, Massachusetts
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 781-430-0675



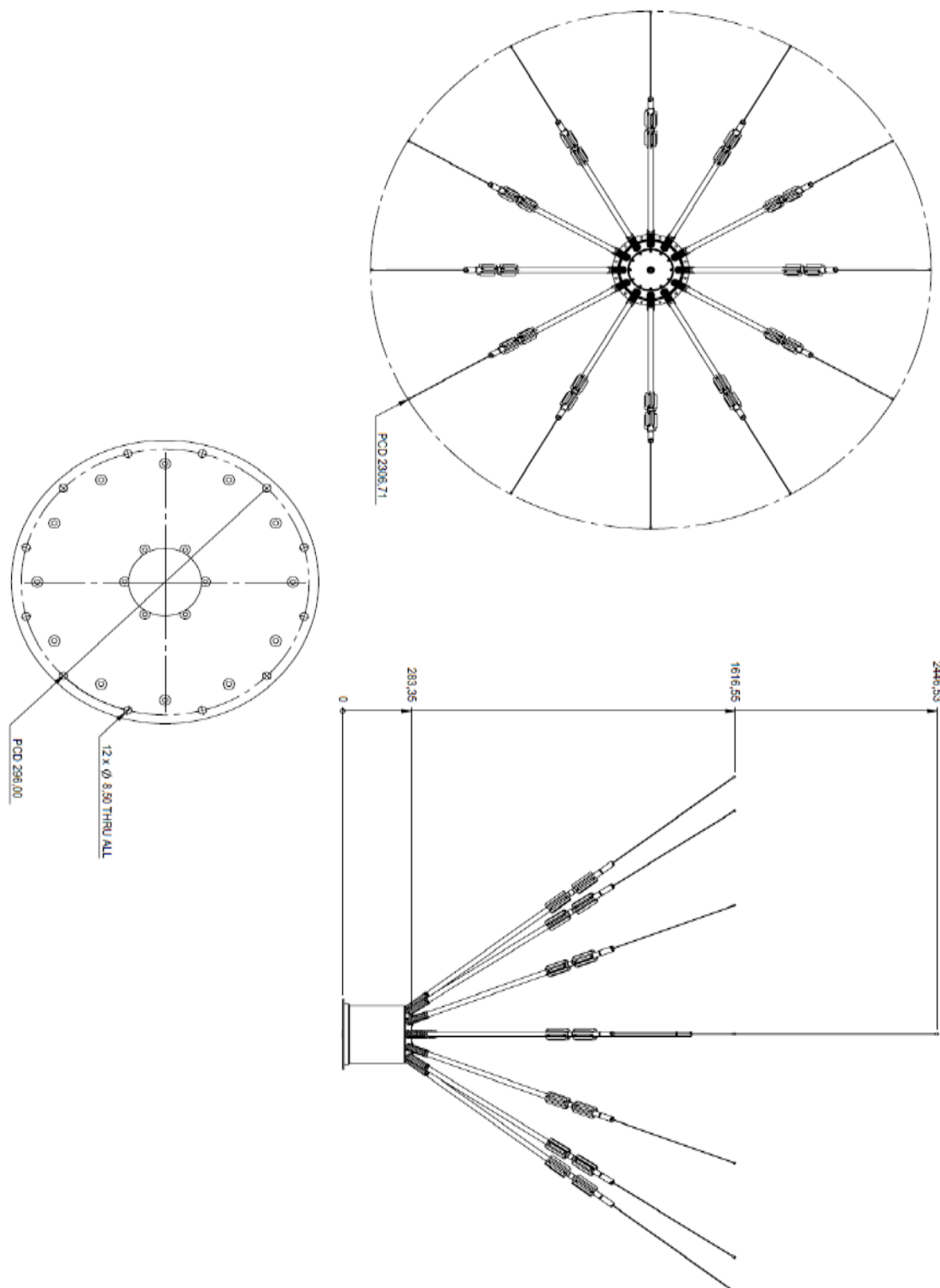
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Dimensions of the OMNI-A0046-01 Antenna



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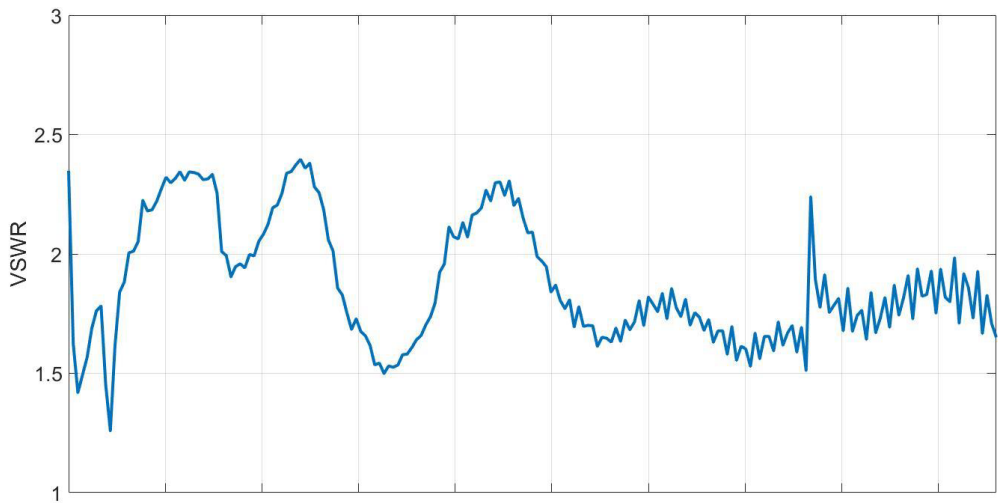
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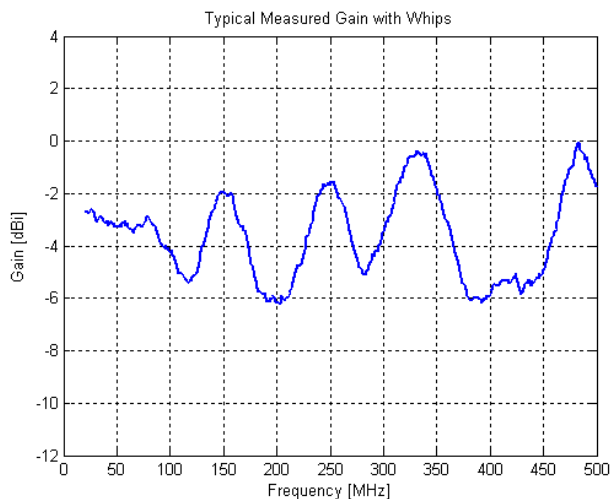
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VSWR AND GAIN GRAPHS:

VSWR:



GAIN:



VSWR and gain measured with the antenna mounted on a 5 m x 2.5 m groundplane

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