

Compact 4-Channel DF Antenna

20 – 500 MHz

Product Code: DF-A0273

SPECIFICATIONS:

Electrical: DF	20 _ 500 MHz
Frequency range Number of channels	20 – 500 MHz 4
DF method	4-channel CDF
Bi memea	<pre>4-challel CDF </pre>
RMS accuracy Polarisation	Vertical
Nominal input impedance	50 Ω
Electrical:	
Frequency range	20 – 500 MHz
RF Amplification Gain	20 ± 2 dB
Control	RS 485 serial at 115 kbaud
Switching time	< 100 µs using serial commands
	< 4 µs when using dedicated lines
Integrated compass	Available on RS485 serial. Accuracy 3° RMS
Stored information	Model no., serial no., user data fields
RF calibration	RF chain calibration using Integrated noise
	source or external applied signal
Power supply	6.5-18 VDC
Power consumption	< 1 W (noise source and compass off)
Interfaces:	
Electrical	Connectors recessed into base of antenna
Antenna outputs	4 x N-type female
Antenna inputs (RF Cal)	1 x N-type female
Control and power	MIL-DTL-38999 multi-pin connector
Mechanical	Flange for vehicle or mast-mounting
Mechanical:	
Dimensions (ø x h)	350 mm x 466 mm
Total mass	8 kg
	to meet the following specifications
Temperature (operation)	-30 °C to +70 °C
	Designed to MIL-STD-810-F for ground
Vibration and shock	vehicles

* Improved accuracy is possible using correlative methods

Notes:

RMS accuracy is measured over all azimuth. 1.

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Cyntony Corporation 195 Follen Road Lexington, Massachusetts sales@cyntony.com 781-430-0675



Updated 2023-12-01

VERSION: 1.1



PRODUCT DESCRIPTION:

The DF-A0273 is a single band, compact 4-Channel DF antenna intended for directionfinding from 20 to 500 MHz.

The antenna uses crossed-loop array principles that provides maximum possible sensitivity for its compact form factor. The loop designs incorporate patent pending technology to mitigate cross-pol disturbance.

The antenna presents patterns suitable for 4channel correlative DF (CIDF).

The DF-A0273 has low noise amplification on each channel with passive bypass capability, an integrated noise source for calibration and an electronic compass.

*CA Application 2,853,219; *EP Patent 2771943; *U.S. Patent No. 14/353,382; *ZA Patent No. 2014/02806

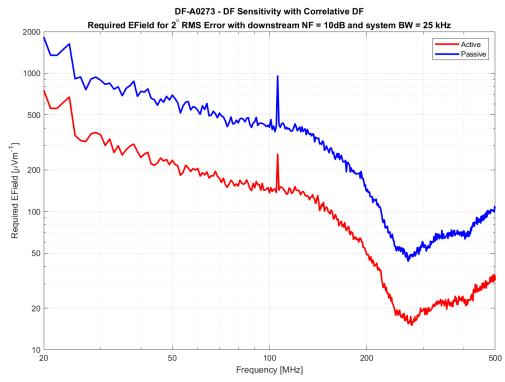
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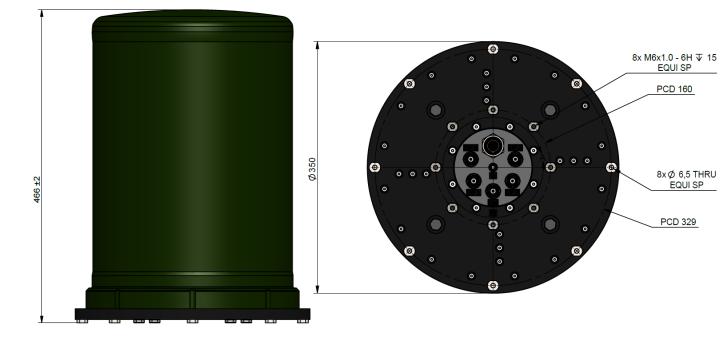
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DF Sensitivity:



MECHANICAL OUTLINE DRAWING:



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