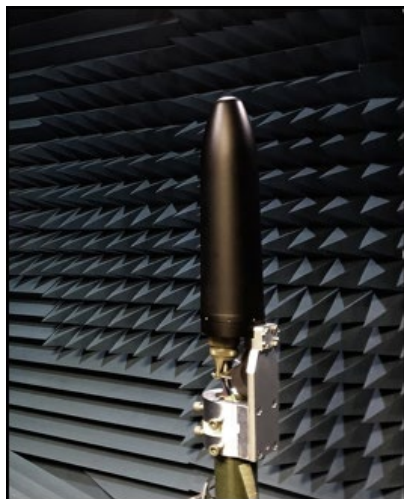


Compact 4-Channel DF Antenna

20 – 6000 MHz

Product Code: DF-A0303

VERSION: 1.2



PRODUCT DESCRIPTION:

The DF-A0303 is a tri band, compact DF antenna intended for manpack direction-finding on the move from 20 MHz to 6000 MHz.

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

The DF-A0303 has a low noise amplifier on each channel with passive bypass capability, an integrated noise source or optional external signal can be used for downstream RF chain calibration and also includes a navigation and GPS.

*CA Application 2,853,219;

*EP Patent 2771943;

*U.S. Patent No. 14/353,382;

*ZA Patent No. 2014/02806

SPECIFICATIONS:

Product Code:	
DF-A0303	RS485 communication interface
DF-A0303-02	USB V2.0 communication interface, 64 MB onboard memory
DF-A0303-05	USB V2.0 communication interface, integrated inertial navigation system and 64 MB onboard memory
Electrical: DF	
Frequency range	20 – 6000 MHz
Frequency bands	Band B: 20 - 500 MHz
	Band C: 400 - 2000 MHz
	Band D: 2000 - 6000 MHz
Number of channels	4
DF method	4-channel CDF
RMS accuracy	2° RMS
Polarisation	Vertical
Nominal input impedance	50 Ω
Electrical:	
DF-A0303	DF-A0303-02 / -05
Frequency range	20 – 6000 MHz
RF Amplification Gain	20 ± 2 dB
Control	RS 485 serial at 115 kbaud USB V2.0
Switching time	< 100 µs using serial commands < 5 µs when using dedicated lines < 25 µs
Integrated features:	
DF-A0303 / -02	DF-A0303-05
Navigation	Integrated compass Heading accuracy 2° RMS Integrated GPS/INS ¹ unit. Heading accuracy 0.3° RMS
GPS Antenna	Active (L1)
DF-A0303	DF-A0303-02 / -05
Onboard Storage	Model no., serial no., user data fields 64MB flash in addition to Model no., serial no., user data fields
Programming interface	None to integrated micro controller
RF calibration	RF chain calibration using Integrated noise source or external applied signal
Power supply	6 - 18 V DC
Power consumption	< 3W
Interfaces:	
Connector	MIL-DTL-38999 multi-pin connector
Antenna outputs	4 x co-axial
Integrated GPS (-05 only)	1 x co-axial
Ext cal input	1 x co-axial
Control and power	4 x digital
Programming	4 x digital (DF-A0303-02 / -05 only)
Mechanical	Removable flange for vehicle or mast-mounting Various sockets for tripod / gooseneck (1/4-20 UNC, 3/8-16 UNC, M10-6H, 3x M5-6H)

Notes:

¹ VN-200 GPS/INS

Mechanical:	
Dimensions (ø x h)	See outline below
Total mass	< 1.2 kg incl bracket
Environmental: designed to meet the following specifications	
Wind survival	160 km/h (without ice)
Temperature (operation)	-30 °C to +70 °C
Vibration and shock	Designed to MIL-STD-810F for ground vehicles
IP Rating	IP66

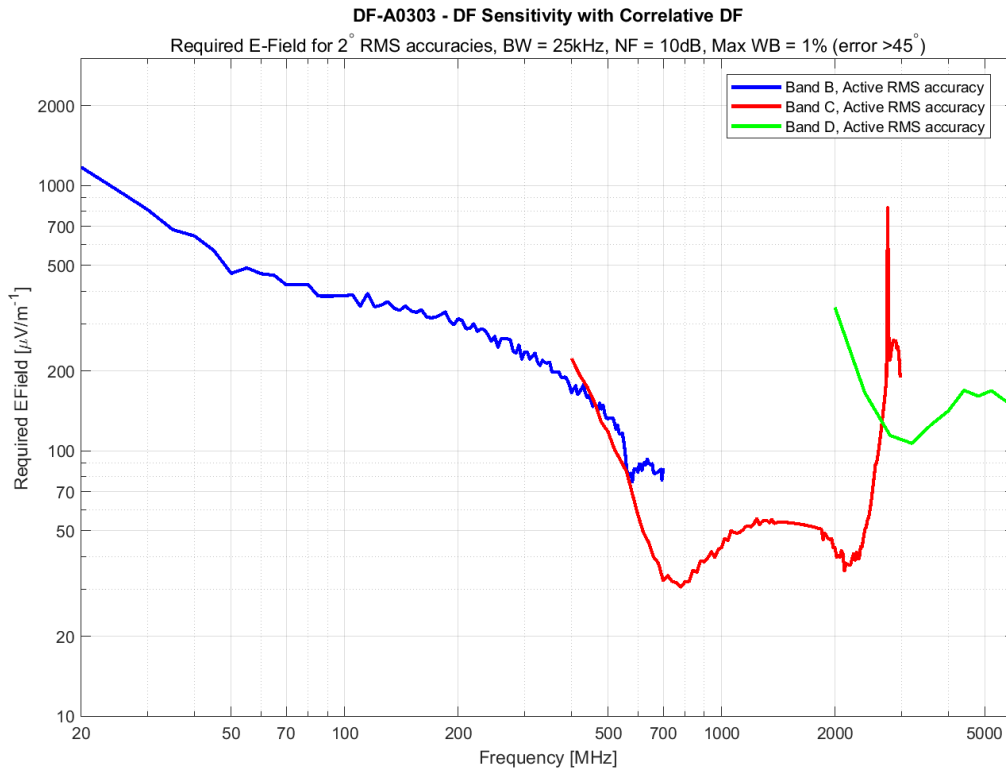
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Sensitivity:



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Mechanical Outline:

