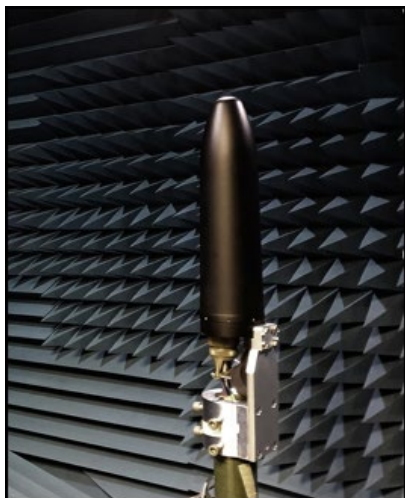


20 – 18000 MHz

Product Code: DF-A0389

SPECIFICATIONS:



*For indicative purposes only

PRODUCT DESCRIPTION:

The DF-A0389 is a tri-band, compact DF antenna intended for manpack direction-finding on the move from 20 MHz to 18000 MHz.

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

The DF-A0389 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

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

Product Code:		
DF-A0389	RS485 communication interface	
DF-A0389-02	USB V2.0 communication interface, 64 MB onboard memory and electronic compass	
DF-A0389-05	USB V2.0 communication interface, integrated inertial navigation system and 64 MB onboard memory	
DF-A0389-07	USB V2.0 communication interface, 64 MB onboard memory	
Electrical: DF		
Frequency range	20 – 18000 MHz	
Frequency bands	Band B: 20 - 500 MHz	
	Band C: 400 - 2000 MHz	
	Band D: 2000 - 8000 MHz	
	Band E: 6000 - 18000 MHz	
Number of channels	4	
DF method	4-channel CDF	
RMS accuracy	2° RMS	
Polarisation	Vertical	
Nominal input impedance	50 Ω	
Electrical:	DF-A0389	DF-A0389-02/-05/-07
Frequency range	20 – 18000 MHz	
RF Amplification Gain	TBD	
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-A0389 / -02	DF-A0389-05
Navigation	Integrated compass Heading accuracy 2° RMS	Integrated GPS/INS ¹ unit. Heading accuracy 0.3° RMS
GPS Antenna	Active (L1)	
	DF-A0389	DF-A0389-02 / -05 / -07
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	TBD	
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-A0389-02 / -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

Compact 4-Channel DF Antenna

20 – 18000 MHz

Product Code: DF-A0389

VERSION: 0B

Sensitivity:

