

# Compact DF Antenna

3 – 6 GHz

Product Code: DF-A0141

## SPECIFICATIONS:



<b>Electrical: DF</b>	
Frequency range	3 – 6 GHz
Nominal input impedance	50 $\Omega$
Antenna type	5-element DF interferometer
Strong signal DF accuracy	< 1° RMS
Gain	0 dBi typical
Polarisation	Vertical
<b>Electrical: Noise switch</b>	
Control	- RS 485 serial at 115 kbaud - Dedicated switching lines
Power supply	15 $\pm$ 2 V DC
Switching time	< 5 $\mu$ s when using dedicated lines
Internal noise source power output	40 $\pm$ 5 dB ENR
<b>Interface:</b>	
Connector	MIL-38999
Antenna outputs	5 x co-axial
Antenna input	1 x co-axial (External cal)
DC lines	4 x RS 485 2 x Dedicated control lines 2 x Power
<b>Mechanical:</b>	
Dimensions (h x d)	770 mm x 80 mm
Weight	< 5 kg
Mounting method	NATO flange
<b>Environmental: designed to meet the following specifications</b>	
Temperature (operational)	- 31 °C to +65 °C
Water ingress rating	IP65
Wind survival	160 km/h

## FEATURES:

- Highly versatile
- Accurate DF applications
- Vertical polarisation
- Easy to assemble and disassemble
- Rugged construction
- Internal chain calibration noise source

## APPLICATIONS:

- Mobile and fixed DF applications

## PRODUCT DESCRIPTION:

The DF-A0141 direction finding antenna from Alaris Antennas originates from the well-established DF-A0062 wideband DF antenna. This antenna is the highest-frequency set covering 3 to 6 GHz. It is suitable for quick deployment as well as fixed applications.

The 5-element interferometer antenna is located inside a radome with the electrical connections for the five channels being available at the base of the mast via a MI-38999 connector.

The antenna is mounted at the top of a spring mounted isolating mast to allow it to clear any obstructions in the nearby environment.