



20 MHz – 3000 (6000) MHz

DFA 2450

Direction-finding antenna

The DFA 2450 is a high sensitivity, fully passive, seven channel direction-finding antenna covering 20 to 6000 MHz. Specially designed for maritime applications, the lightweight and compact antenna can be used in harsh environments and withstand wind speeds of up to 180 km/h when mounted on a suitable mast. The dipole antenna is vertically polarised and works effectively with the correlative interferometer DF method.

TECHNICAL HIGHLIGHTS

- 7 channel fully passive antenna with factory calibration
- highly resistant to multi-path scattering and polarisation changes
- lightning rod on top of the antenna
- junction box with low noise amplification
- antenna stand designed for tower application
- extended environmental resistant – temperature, shock, vibration, salt fog
- integrated HF direction-finding section (optional)
- integrated omni module (optional)

CUSTOMER ADVANTAGES

- high resistance to multipath propagation and high sensitivity
- withstands high electrostatic discharge
- designed for mounting on tower mast systems in a maritime environment
- integrated HF option enables shortwave direction-finding on vessels
- integrated monitoring capabilities reduces the number of required antennas

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DFA 2450	
DF frequency range	20 MHz – 3000 (6000) MHz
Subrange VLF/LF/MF	n/a
System sensitivity	n/a
DF accuracy	n/a
Subrange MF/HF	n/a
System sensitivity	n/a
DF accuracy	n/a
Subrange VHF	20 MHz – 150 MHz
System sensitivity	typ. 60 µV/m
DF accuracy	2° RMS
Subrange VHF/UHF	150 MHz – 1200 MHz
System sensitivity	typ. 9 µV/m
DF accuracy	1.5° RMS
Subrange UHF	1200 MHz - 3000 MHz
System sensitivity	typ. 10 µV/m
DF accuracy	1.5° RMS
Subrange SHF	3000 MHz – 6000 MHz
System sensitivity	typ. 30 µV/m
DF accuracy	1.5° RMS
DF method	correlative interferometer
Antenna type	passive
Antenna configuration	dipole
Antenna elements	21
Channels	7
Polarisation	vertical
Omnidirection monitoring Antenna/output	optional
BITE	external calibration
Operating temperature	-40° to +70° C
Storage temperature	-40° to +70° C
Environmental protection	IP 55
Maximum wind velocity (w/o icing)	180 km/h (50 m/s)
Power consumption	12 VDC, I _{max} = 2.5 A
Weight	45 kg
Diameter	640 mm
Height	1940 mm
Required space	mast
Installation	mast
Set-up time	fixed installation
Extras	lightning rod (protection)