



DFA 2441

Direction-finding antenna

VHF

UHF

SHF

20 MHz – 6000 MHz

The active direction-finding antenna DFA 2441 is lightweight antenna covering 20 to 6000 MHz. The antenna is engineered for compact operational use. The dipole antenna is vertically polarised and works efficiently with the correlative interferometer DF method. With high sensitivity even in the lower frequencies and its 7 channels, the antenna is an excellent match for all PLATH direction-finding receivers in various applications.

TECHNICAL HIGHLIGHTS

- 7 channel active antenna with low noise amplification
- high sensitivity 3 µV/m (typical) for frequencies from 50 to 1000 MHz
- resistant to multi-path scattering and polarisation changes
- integrated omni module (optional)

CUSTOMER ADVANTAGES

- high resistance to multipath propagation and high sensitivity even under weak signal conditions
- very reliable and precise bearings through exceptional mechanical and electrical design
- integrated monitoring capabilities reduce the amount of installed antennas

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RECEIVER

MONITORING
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DIRECTION-FINDING
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DFA 2441	
DF frequency range	20 MHz – 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 – 50 MHz
System sensitivity	typ. 15 µV/m
DF accuracy	typ. <5° RMS
Subrange VHF/UHF	50 MHz – 1000 MHz
System sensitivity	typ. 3 µV/m
DF accuracy	2° RMS
Subrange UHF	1000 MHz – 3000 MHz
System sensitivity	typ. 10 µV/m
DF accuracy	2° RMS
Subrange SHF	3000 MHz – 6000 MHz
System sensitivity	typ. 50 µV/m
DF accuracy	2.5° RMS
DF method	correlative interferometer
Antenna type	active
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} = 3 A
Weight	30 kg
Diameter	1106 mm
Height	620 mm
Required space	car (rooftop)
Installation	car (rooftop)
Set-up time	fixed installation