

DFA 2440

Active V/UHF Direction Finding Antenna



20 to 3000 MHz

Mobile flexibility and excellent direction finding results at the same time

The active DFA 2440 can be used in the frequency range from 20 to 3000 MHz. The antenna has been specially developed for compact operational use on the top of a vehicle. Its flat design and low weight of less than 30 kg permits an installation even on lighter vehicles.

The DFA 2440 consists of two direction finding antenna systems, which are integrated compactly with regard to size, flatness, weight and power consumption. The active DFA 2440 antenna is based on the correlative interferometer direction finding method. The system is particularly resistant to multipath scattering. Besides, integrated omni-directional antennas enable monitoring tasks over the entire frequency range.



Features

- Particularly resistant to multipath propagation and polarisation changes
- Optional: Built-in compass
- Optional: Omni-directional output for monitoring

Specifications

Characteristics

Frequency range	20 to 3000 MHz (from 20 to 50 MHz with degraded data)
Sub-ranges of DF-antenna	(20) 50 to 1000 MHz 1000 to 3000 MHz
Omni-antenna (option)	20 to 3000 MHz
DF procedure	7-fold correlative interferometer
Bearing accuracy	2° RMS typ. in reflection-free terrain for f>50 MHz
Polarisation	vertical
Nominal impedance	50 Ω

Environmental data

Permissible temperature range	
Operation	-40°C to +70°C
Storage	-40°C to +70°C

Mechanical data

Height	350 mm
Diameter	1106 mm
Weight	< 30 kg

Order reference DFA 2440	DFA 4138.1
Order reference Omni-antennas	DFA 4138.1.1
Order reference Built-in compass	DFA 4138.1.5