LS telcom
Smart Spectrum Solutions

Global Spectrum Experience

Radio Monitoring

Direction Finding Antenna

LS OBSERVER AOA 200

TECHNICAL DETAILS

AOA 200 AUTOMATIC DF ANTENNA (INTERFEROMETER)

RF Characteristics		
RF Characteristics	**Antenna type**	Single channel, automatic Direction Finding antenna with omnidirectional reference antenna element in the center.
	Frequency range	Direction Finding: 10 MHz to 8 GHz Spectrum: 100 kHz to 8 GHz
	DF method	10 MHz to 200 MHz Watson-Watt, two orthogonal crossed loops 200 MHz to 8 GHz correlative interferometer, two stacked 9-element circular arrays
	Antenna aperture	200 MHz to 2.7 GHz 380 mm diameter 2.7 GHz to 8 GHz 128 mm diameter
	Polarisation	vertical
	DF bearing accuracy[1]	f ≤ 200 MHz 1,5° RMS (typ.) f > 200 MHz 1° RMS (typ.)

Misc. Characteristics		
Misc. Characteristics	**Compass**	embedded electronic compass
	GNSS	embedded receiver and antenna
	Interfaces	RF SMA (female) control 12-pin (female)
	Dimensions (height × diameter)	219 mm x 480 mm (8.62“ x 18.9“)
	Weight	without ice accretion 6.5 kg (14.3 lbs) with 30 mm radial ice accretion 16.5 kg (36.1 lbs)

Environmental Characteristics		
Environmental Characteristics	**Maximal permissible wind speed: on vehicle roof**	130 km/h (without ice deposit)
	Maximal permissible wind speed: on a fixed installation	275 km/h (without ice deposit)
	Operation temperature	-40 to 65°C
	Storage temperature	-40 to 85°C
	Humidity	95% at 30°C

GCB

[1] Measurement in an environment free of multipath signals. The DF accuracy is calculated from the bearing results of uniformly distributed samples with azimuth and frequency according to ITU-R SM.2060-0.

For further information, please visit our website www.LStelcom.com or contact Info@LStelcom.com.