

ESM

DF 360 SERIES ANTENNA



Full 360° spacial azimuth coverage is provided with a single antenna assembly. The DF 360 series provides a very high degree AOA accuracy with a minimum of three receiver channels. Receiver front end electronics; Preamplification, filtering, and limiting, are provided for interface to a receiver.

The DF 360-1 provides the necessary RF and control hardware to perform calibration and built-in-test (BIT).

The design provides for mounting an optional GPS antenna on the top of the subassembly.

A Radome can be provided based on specific application requirements.

SPECIFICATIONS

ELECTRICAL	Frequency Range	2.0 – 6.0 GHz (Mid Bd) 6.0 – 18.0 GHz (Hi Bd)
	VSWR	2.0:1
	Antenna Gain	-1 dB at center of band
	Impedance	50 Ohms
	Polarization	Slant 45, Vertical, Horizontal, CP
	Azimuth Pattern	360°
	Elevation Pattern	58°, 30°, 22° (6, 12, 18 GHz)
	AOA Accuracy	1° Calibrated, 2.5° slope Corrected
	Electronic Gain	22 dB (2 – 6 GHz), 31 dB (6 – 18 GHz)
	Electronic Noise Figure	4.0 dB (2 – 6 GHz), 5.0 dB (6 – 18 GHz)
MECHANICAL	Connector	RF: SMA Female, Control/Power
	Command Signal	RS 422
	DC Power	23.6 Watts (RF Front End), 30.0 Watts (Bit/Cal)
	Diameter x Height	12.59" x 17.75" high
	Weight	25 lbs
	Environmental	-40°C to +55°C (operational), 160g Shock

Specifications subject to change without notice.

1099-271(M28)

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OUTLINE DIMENSIONS

Inches

