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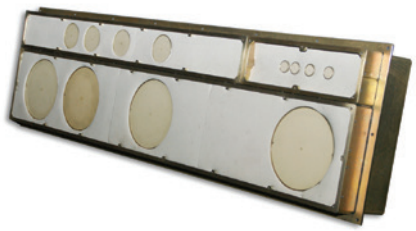
SE129 SERIES ANTENNA

L3Harris' SE129 Series are linear interferometer antenna array panels that provide for high-accuracy angle-of-arrival determination. The SE129 Series interferometer antenna array consists of three antenna sub-arrays and their respective radomes integrated with an RS-422 controlled radio frequency (RF) module. Operation is from 0.5-18 gigahertz, with the above-mentioned antenna sub-array covering 0.5-2, 2-6, and 6-18 gigahertz. Customized cavity-backed spiral antenna apertures provide for wide-angle coverage. The integrated RF module provides preamplification, filtering and RF-switching allowing for direct interface of the SE129 with customer furnished receivers. The RF-switching network allows selection of the antenna sub-bands or a calibration path. The radomes, which are integrated into the panel are designed for minimal insertion loss and phase error, provide protection from the flight environment. This allows the SE129 to operate without need for any additional radomes or aerodynamic fairings. The SE129 Series has been designed to meet the stringent requirements of today's manned and unmanned military platforms.

ELECTRICAL	
Frequency range	
Low-band	0.5–2 GHz
Mid-band	2–6 GHz
High-band	6–18 GHz
VSWR	2.5:1
Gain	
Low-band	-12.5 dBil min boresight gain
Mid-band	-7.0 dBil min boresight gain
High-band	-3.0 dBil min boresight gain
Polarization	RHCP
Azimuth coverage	+/-45 deg
Elevation coverage	+/-20 deg
Phase tracking	10 deg RMS
Electronic gain	22 dB
Electronic noise figure	6 dB max
1 dB compression	+22 dBm
Switch control	3-bit, RS-422 (differential)
Switching speed	50 nS
MECHANICAL	
Connector	TNC female
Weight	55 lbs max
Radome finish	MIL-PRF-85285 gloss white
Housing finish	MIL-DTL-5541 class 3



KEY FEATURES

- Broadband frequency coverage
- Ability to store calibration data
- Rugged design
- Ideal for both manned and unmanned military platforms

For further details and specifications, contact the factory at antenna.info@L3Harris.com

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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