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# AS-48450 DUAL-POLARIZED QUAD-RIDGED HORN ANTENNA

The AS-48450 Dual-Polarized Quad-Ridged Horn Antenna provides moderate gain directional radiation patterns over a multioctave bandwidth. This pyramidal horn has two orthogonal input ports, permitting simultaneous horizontal and vertical polarization modes to be generated. With the inclusion of a 90° hybrid at the horn terminals, both right- and left-hand circular polarizations are simultaneous available. The AS-48450 antenna is designed for application as an individual primary radiator or as an array element and is capable of handling radio frequency (RF) power for transmitting applications. It is also ideally suited for illuminating high-gain reflectors for surveillance and direction-finding systems.



## KEY FEATURES

- > High gain, directional patterns
- > Simultaneous dual linear polarization
- > 70 watts RF power handling
- > Test, surveillance, and direction-finding applications

For further details and specifications, contact the factory at [antenna.info@L3Harris.com](mailto:antenna.info@L3Harris.com)

ELECTRICAL	
Frequency range	0.5 – 2.0 GHz
VSWR	3.0:1 (nominal)
Gain	7 – 12 dBi (nominal)
Polarization	Dual linear
Beam width	Consult with factory
Cross polarization	-20 dB (nominal)
Power handling	70 W CW
MECHANICAL	
Connector	TNC female (2)
Weight	33 lbs/15 kg

### AS-48450 Dual-Polarized Quad-Ridged Horn Antenna

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Nonexport-controlled Information

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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