



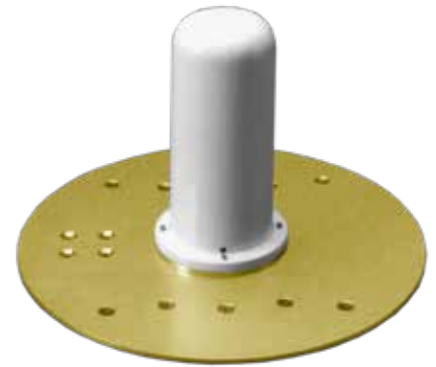
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AS-49070 S-BAND QUADRIFILAR HELIX ANTENNA

The AS-49070 Quadrifilar Helix Antenna is a lightweight and rugged antenna which provides depressed cardioid radiation patterns in the 2.1 to 2.3 gigahertz frequency band. The depressed cardioid design produces a radiation pattern that has a beam peak located approximately 50° off boresight at the center of the frequency band.

The polarization is right hand circular, however, a Left Hand Circular version can be designed if required. The AS-49070 is ideally suited for, and has been deployed in, satellite communications applications where more antenna gain is required at off boresight angles due to increased atmospheric link losses.

ELECTRICAL		
Frequency range	2.10 — 2.30 GHz	
VSWR	1.5:1 max	
Gain	0°	-4.5 dBic
	45°	1.6 dBic
	70°	0.0 dBic
	90°	-3.0 dBic
Impedance	Simultaneous horizontal and vertical Simultaneous RHCP and LHCP w/90° hybrid.	
Polarization	Horizontal	
Pattern	Depressed cardioid	
MECHANICAL		
Connector	SMA female	
Weight	6 lbs max	



KEY FEATURES

- > Lightweight rugged construction
- > Depressed cardioid pattern
- > RHCP is the standard, LHCP (consult with factory)
- > Ideal for extreme environments and space type applications

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

AS-49070 S-Band Quadrifilar Helix Antenna

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