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# AS-48987 BICONICAL OMNIDIRECTIONAL ANTENNA

The AS-48987 biconical omnidirectional antenna is a lightweight, rugged antenna providing coverage of the 0.8-18 gigahertz frequency band. The polarization is slant linear, allowing reception of right- and left-hand circular, vertically and horizontally polarized signals from a single connector. This antenna combines broadband frequency coverage with excellent performance features for an antenna of small physical size. These features include low deviation from omni and excellent response to vertical and/or horizontal excitation. The AS-48987 is readily adapted to numerous applications including airborne, ship, vehicle and fixed-site requirements.

ELECTRICAL		
Frequency range	0.8-18.0 GHz	
VSWR	2.5:1 typ	
Gain	0.8-1.0 GHz	-6.0 dBi
	1.0-2.0 GHz	0.0 dBi
	2.0-4.0 GHz	2.0 dBi
	4.0-8.0 GHz	4.0 dBi
	8.0-18.0 GHz	4.0 dBi
Polarization	Slant linear (will receive vertical, horizontal, RHCP, LHCP)	
Deviation from omni (nom)	0.8-1.0 GHz	2.5 dB
	1.0-2.0 GHz	2.5 dB
	2.0-4.0 GHz	2.25 dB
	4.0-8.0 GHz	1.0 dB
	8.0-18 GHz	1.0 dB
Elevation beamwidth (typ)	0.5-0.7 GHz	160°
	0.7-1.0 GHz	110°
	1.0-2.0 GHz	60°
	2.0-4.0 GHz	45°
	4.0-8.0 GHz	20°
	8.0-18.0 GHz	19°
Power handling	Receive only	
MECHANICAL		
Connector	SMA female	
Weight	10.5 lbs (4.8 kgs)	



## KEY FEATURES

- > Broadband frequency coverage (0.8 to 18 gigahertz)
- > Rugged construction
- > Slant linear polarization
- > Ideal for electronic support measure and electronic warfare applications

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

### AS-48987 Biconical Omnidirectional Antenna

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Nonexport-controlled Information

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