

AS-48951 OMNIDIRECTIONAL ANTENNA

The AS-48951 Omnidirectional Antenna is an exceptionally small, lightweight, biconical-horn antenna, which provides unusual broadband performance for its size. The polarization is 45-degree slant linear, allowing reception of right-hand circular (RHC), left-hand circular (LHC), vertically and horizontally polarized signals from a single connector.

The AS-48951 antenna is ideally suited to applications where size, weight, and—with an optional heavy-duty radome—rugged construction is needed to provide broad frequency reception.

ELECTRICAL			
Frequency range	0.5 to 18.0 GHz (usable to 26 GHz)		
VSWR	3.0:1 max, 2 to 18 GHz 5.5:1 max, 18 to 26 GHz 6.0:1 max, 1 to 2 GHz 9.0:1 max, 0.5 to 1 GHz		
Gain average (min)	Horizontal	Vertical	Matched
18 to 26 GHz 12 to 18 GHz 8 to 12 GHz 4 to 8 GHz 2 to 4 GHz 0.5 to 2 GHz	-3 dBi (-8 dBi) -3 dBi (-8 dBi) -4 dBi (-8 dBi) -8 dBi (-13 dBi) -8 dBi (-17 dBi) >-20 dBi over 75% of band	0 dBi (-8 dBi) -4 dBi (-6 dBi) -4 dBi (-6 dBi) -7 dBi (-13 dBi) -10 dBi (-31 dBi) >-18 dBi over 70% of band	+4 dBi (0 dBi) +2.5 dBi (0 dBi) -4 dBi (-6 dBi) -5 dBi (-8 dBi) -6 dBi (-17 dBi) >-19 dBi over 80% of band (-32 dBi)
Impedance	50 ohms		
Polarization	Slant linear		
Deviation from omni	±3 dB over 90° of frequency range		
Beamwidth	360° azimuth 20° or more elevation		
Power handling	Receive only		
MECHANICAL			
Connector	SMA female		
Weight	4 lbs (1.8 kgs)		
Finish	White polyurethane		



KEY FEATURES

- > Broadband frequency coverage (0.5 to 18 gigahertz)
- > Lightweight, rugged construction
- > Simultaneous horizontal, vertical, RHC, LHC polarization
- Ideal for electronic support measure and electronic warfare applications

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

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