



# AT-741 SERIES L-BAND BLADE ANTENNA

L3Harris' AT-741 Series L-band Blade Antennas utilize a new concept of antenna design and manufacture which makes them ideal for commercial and military application. The radiating element is encapsulated in an epoxy dielectric body by a transfer molding process. The antenna is impervious to moisture penetration by direct immersion or extended exposure to high humidity conditions. The rugged design includes an interlocked mounting base and radiating element molded into the dielectric body for a completely unified, integral and rugged assembly. The molding process is a high-production technique, substantially reducing antenna cost.

The AT-741 is provided with a BNC female test probe for preflight checkout. Although L3Harris manufactures all of the above AT-741 types, L3Harris strongly recommends customers replace all A/A, B/A with the B/B version when reordering. The B/B version of this antenna improves mechanical performance with side-load levels to 15 psi.

PARAMETER	SPECIFICATION		
<b>Electrical</b>			
Frequency range	960-1220 MHz		
VSWR	960-1220 MHz – 1.4:1 1000-1100 MHz – 1.3:1		
Probe VSWR	1.5:1		
Probe coupling	-16 to -19 dB		
Gain	Within 0.5 dB of a matched $\lambda/4$ stub		
Polarization	Vertical		
Radiation patterns	Consult with factory		
Power handling	100 W average, 4.0 kW peak		
<b>Mechanical</b>			
HN	8 oz.		
Aerodynamic drag	Sea level, Mach 0.5 – 13 oz. Sea level, Mach 0.8 – 30 oz.		
Military	MIL-E-5400, MIL-A-7272, MIL-G-5272		
Connectors	AT-741/A	AT-741 A/A	AT-741 B/B
Mating connector	HN	HN	HN
Connector clearance hole in aircraft	1.10-1.25 in.	1.10-1.25 in.	1.10-1.25 in.
960-1220 MHz	1.8	1.7	1.4
1000-1100 MHz	1.6	1.5	1.3



## KEY FEATURES

- > Moisture proof
- > Rugged design
- > Low cost
- > Used with:
  - Distance measuring equipment (DME)
  - Identification friend or foe (IFF)
  - Tactical air navigation (TACAN)
  - Telemetry
  - Electronic countermeasure (ECM) systems

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

### AT-741 Series L-Band Blade Antenna

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