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

#### Electrical
- **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 λ/4 stub
- **Polarization**: Vertical
- **Radiation patterns**: Consult with factory
- **Power handling**: 100 W average, 4.0 kW peak

#### Mechanical
- **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.
  - 1.7
  - 1.4
  - 1.0-1.25 in.

#### 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