TACAN Antennas
Catalog 2013

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**VERDANT JL 02**

**L - Band Blade Antenna**

JL 02 is an L-band antenna designed to be used with TACAN system. The design ensures excellent omnidirectional pattern over the entire band. The radiating element is encased in a single piece glass fibre reinforced epoxy shell. These antennas are low profile, low drag stub antennas designed to withstand severe environmental conditions ideally suited for high performance supersonic aircrafts.

### ELECTRICAL

- **Frequency Range**: 950 MHz - 1220 MHz
- **VSWR**:
  - 1.5:1 (950 MHz - 1020 MHz)
  - 1.15:1 (1020 MHz - 1100 MHz)
  - 1.5:1 (1100 MHz - 1220 MHz)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω
- **Static Protection**: DC Grounded
- **Power RF**: 4 kW Peak

### MECHANICAL

- **Weight**: 115 grams (Max)
- **Height**: 76 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: TNC (Right Angle with Flange) [Standard] TNC (Straight Type) [Optional]

### ENVIRONMENTAL

- **Temperature**: -54ºC to +90ºC
- **Altitude**: 60,000 feet

*Contact us for your customized requirements*

Tests in accordance with MIL 810 F

Dimensions are in mm

Inches shown in bracket

*All data contained herein is subject to change without notice*
**VERDANT JL 06**

**L-Band Antenna**

JL 06 is an L-band antenna designed to be used with IFF/TACAN system. The design ensures excellent omnidirectional pattern over the entire band. The radiating element is encased in a single piece glass fibre reinforced epoxy radome. These antennas are low profile, ideally suited for helicopters and supersonic aircrafts.

### ELECTRICAL

- **Frequency Range**: 950 MHz - 1250 MHz
- **VSWR**:
  - 1.7:1 [ 950 MHz - 1250 MHz]
  - 1.2:1 [1025 MHz - 1095 MHz]
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω Nominal
- **Static Protection**: DC Grounded
- **Test Probe Isolation**: - 18 dB at 1090 MHz Nominal
- **Power RF**: 1 Kw Peak

### MECHANICAL

- **Weight**: 90 gram (Max)
- **Height**: 76 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: TNC (Standard for Aerial Feed) BNC (For optional Test Probe)

### ENVIRONMENTAL

- **Temperature**: -55ºC to +90ºC
- **Altitude**: 60,000 feet

Tests in accordance with MIL 810 F

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