IFF Antennas
Catalog 2013
VERDANT JL 02 I
IFF ANTENNA

JL 02 I is an L-band antenna designed to be used with IFF system. The design ensures excellent omni directional 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**: 960 MHz – 1220 MHz
- **VSWR**: 1.2:1 [1020 MHz - 1100 MHz]
  1.5:1 [950 MHz - 1220 MHz]
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 ohms Nominal
- **Static Protection**: DC Grounded
- **Power RF**: 4 Kw Peak

**MECHANICAL**
- **Weight**: 115 grams (Max)
- **Height**: 76 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: C-Type (Aerial field)
  BNC (Test probe)

**ENVIRONMENTAL**
- **Temperature**: -55ºC to +90ºC
- **Altitude**: 50,000 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

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**VERDANT** JL 02 X
L-Band Blade Antenna

JL 02 X is an L-Band antenna designed to be used with IFF 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 - 1250 MHz
- VSWR: 2:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω
- Static Protection: DC Grounded
- Power RF: 1.5 kW

**MECHANICAL**
- Weight: 265 grams (Max)
- Height: 61 mm (Max)
- Material: Glass Epoxy
- Finish: Matt Black
- Connector: HN Type, BNC Type

**ENVIRONMENTAL**
- Temperature: -55°C to +90°C
- Altitude: 60,000 feet

**SPECIFICATIONS**
- Contact us for your customized requirements

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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.

**SPECIFICATIONS**

**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

*Contact us for your customized requirements

Tests in accordance with MIL 810 F

Dimensions are in mm
Inches shown in bracket

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