Communication Antennas
Catalog 2013
**VERDANT JD 120 T1B**

**V/UHF Top Loaded Blade Antenna**

JD 120 T1B is a top loaded wideband (VHF/UHF) blade antenna to be used with RF communication systems. These antennae are designed as low profile, low drag blade antennae ideally suited for UAV/helicopter/subsonic jet aircrafts. The fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

**SPECIFICATIONS**

**ELECTRICAL**
- **Frequency Range**: 30 MHz - 512 MHz
- **VSWR**
  - 3:1 (30 MHz - 100 MHz)
  - 2.5:1 (100 MHz – 225 MHz)
  - 2:1 (225 MHz - 512 MHz)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω (Nominal)
- **Power RF**: 50W

**MECHANICAL**
- **Weight**: 450 grams (Max)
- **Height**: 120 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: TNC Female

**ENVIRONMENTAL**
- **Temperature**: -55°C to +90°C
- **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 JD 201
VHF/UHF Blade Antenna

JD 201 is a broadband low profile antenna designed to be used with multifunction communication system and DF. These antennas are designed as streamlined low drag blade antennas ideally suited for high speed aircrafts. The antenna radome is single piece glass fibre reinforced epoxy shell designed to meet the stringent MIL standard requirements. This antenna is suitable for helicopters as well as supersonic aircrafts.

### SPECIFICATIONS

**ELECTRICAL**
- Frequency Range: 110 MHz - 400 MHz
- VSWR: 2.5:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω Nominal
- Static Protection: DC Grounded
- Power RF: 35 W

**MECHANICAL**
- Weight: 1000 gram (Max)
- Height: 251 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: N Type (Standard)

**ENVIRONMENTAL**
- Temperature: -55ºC to +90 ºC
- 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 JD 202**

**VHF/UHF Blade Antenna**

JD 202 is a broadband low profile antenna designed to be used with multifunction communication system and DF. These antennas are designed as streamlined low drag blade antennas ideally suited for high speed aircrafts. The antenna radome is single piece glass fibre reinforced epoxy shell designed to meet the stringent MIL standard requirements. This antenna is suitable for helicopters as well as supersonic aircrafts.

### ELECTRICAL

- **Frequency Range**: 110 MHz - 550 MHz
- **VSWR**: 2.5:1 (Max)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω Nominal
- **Static Protection**: DC Grounded
- **Power RF**: 25 W

### MECHANICAL

- **Weight**: 1000 gram (Max)
- **Height**: 251 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: N Type (Standard)

### ENVIRONMENTAL

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

*Contact us for your customized requirements*

Tests in accordance with MIL 810 F

Dimensions are in mm

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**VERDANT JD 300 D02**  
VHF/UHF Top Loaded Blade Antenna

JD 300 D02 is a Top loaded broadband (VHF/UHF) low profile blade antenna with a wider base designed to be used with multi function communication systems. These antennas are designed as low profile, low drag blade antennas ideally suited for fixed wing aircrafts, helicopters, and UAVs. The fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

**SPECIFICATIONS**

**ELECTRICAL**
- Frequency Range: 30 MHz - 550 MHz
- VSWR: 2.7:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ohm Nominal
- Static Protection: DC Grounded
- Power RF: 35 W CW

**MECHANICAL**
- Weight: 1300 grams (Max)
- Height: 305 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: N Female

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

*Contact us for your customized requirements

Tests in accordance with MIL 810 D

Dimensions are in mm
Inches shown in bracket

*All data contained herein is subject to change without notice
**VERDANT JD 300 L02**  
**VHF/UHF Top Loaded Blade Antenna**

JD 300 L02 is a part of the new generation lightweight antenna series, designed to be used with multi-function communication systems. This straight blade antenna has a wide base and is designed in a low weight, low profile and low drag configuration. The unique design offers substantial weight savings as opposed to other conventional straight blade antennas. The broadband antenna is ideally suitable for UAVs, fixed wing aircrafts and helicopters with payload weight restrictions. The fiber reinforced epoxy antenna shell is designed to meet stringent MIL requirements.

### ELECTRICAL
- **Frequency Range**: 30 MHz - 550 MHz
- **VSWR**: 2.7:1 (Max) [30 MHz – 150 MHz]  
  2.2:1 (Max) [150 MHz - 550 MHz]  
  <1.8:1 (Typical) [Over the band]
- **Polarization**: Vertical
- **Impedance RF**: 50 Ω
- **Static Protection**: DC Grounded
- **Power RF**: 40W CW
- **Tests in accordance with MIL 810 D/E/F**

### MECHANICAL
- **Weight**: 800 grams (Max)
- **Height**: 305 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: N Female

### ENVIRONMENTAL
- **Temperature**: -54°C to +90°C
- **Altitude**: 50,000 feet

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*Contact us for your customized requirements*  
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**VERDANT JD 302 B**

**V/UHF Blade Antenna**

JD 302 B is a broadband low profile blade antenna designed to be used with multi function communication systems. These antennas are designed as low profile, low drag blade antennas suited for fixed wing aircrafts, helicopters and UAVs. The fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

**SPECIFICATIONS**

**ELECTRICAL**

- **Frequency Range**: 100 MHz - 550 MHz
- **VSWR**: 2.5:1 [max]
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω
- **Static Protection**: DC Grounded
- **Power RF**: 25 W CW

**MECHANICAL**

- **Weight**: 1100 grams [Max]
- **Height**: 318 mm [Max]
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: N Type

**ENVIRONMENTAL**

- **Temperature**: -55°C to +90°C
- **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 JD 302 N1A**

V/UHF Blade Antenna

JD 302 is a broadband low profile blade antenna designed to be used with multifunction communication systems. These antennas are designed as low profile, low drag blade antennas suited for fixed wing aircrafts, helicopters and UAVs. The fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

### ELECTRICAL

- **Frequency Range**: 30 MHz - 550 MHz
- **VSWR**: 3:1 (max)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω
- **Static Protection**: DC Grounded
- **Power RF**: 25 W

### MECHANICAL

- **Weight**: 1100 grams (Max)
- **Height**: 318 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: N Type

### ENVIRONMENTAL

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

*Contact us for your customized requirements

**Tests in accordance with MIL 810 F**

**SPECIFICATIONS**

Dimensions are in mm

Inches shown in bracket

*All data contained herein is subject to change without notice*
**VERDANT JD 322 N**

**VHF/UHF Blade Antenna**

JD 322 N is a broadband (VHF/UHF) low profile blade antenna designed to be used with multi function communication and direction finding (DF) systems. These antennas are designed as low profile, low drag blade antennas ideally suited for helicopters, fixed wing aircrafts and UAV. The single piece fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

### ELECTRICAL
- **Frequency Range:** 30 MHz - 550 MHz
- **VSWR:** 3:1 (Max)
- **Polarization:** Vertical
- **Radiation Pattern:** Omnidirectional in azimuth
- **Impedance RF:** 50 Ω Nominal
- **Static Protection:** DC Grounded
- **Power RF:** 35 W

### MECHANICAL
- **Weight:** 1800 grams (Max)
- **Height:** 382 mm (Max)
- **Material:** Glass Epoxy
- **Finish:** Gloss
- **Connector:** N Female

### ENVIRONMENTAL
- **Temperature:** -55º C to +90º C
- **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

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VERDANT JD 322 N
VHF/UHF Blade Antenna

JD 322 N is a broadband (VHF/UHF) low profile blade antenna designed to be used with multi function communication and direction finding (DF) systems. These antennas are designed as low profile, low drag blade antennas ideally suited for helicopters, fixed wing aircrafts and UAV. The single piece fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

**ELECTRICAL**
- Frequency Range: 30 MHz - 550 MHz
- VSWR: 3:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω Nominal
- Power RF: 35 W

**MECHANICAL**
- Weight: 1800 grams (Max)
- Height: 382 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: N Female

**ENVIRONMENTAL**
- Temperature: -55º C to +90º C
- Altitude: 50,000 feet

Tests in accordance with MIL 810 F

Dimensions are in mm
Inches shown in bracket

*Contact us for your customized requirements

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JD 322 T is a broadband (V/UHF) low profile blade antenna from the 322 series, designed to be used with multi-function communication systems. This straight blade antenna has a wide base and is designed as a low profile, low drag blade suited for subsonic aircrafts, fixed wing aircrafts, helicopters as well as for vehicle mount application. The fibre reinforced epoxy antenna shell is designed to meet stringent MIL requirements.

**ELECTRICAL**
- Frequency Range: 20 MHz - 1250 MHz
- VSWR: 3.5:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omni-directional in azimuth with ±3 dB ripple Avg
- Impedance: 50 Ohms Nominal
- Power RF: 10 W CW, 1 KW Momentary

**MECHANICAL**
- Weight: 2100 grams (Max)
- Height: 385 mm (Max)
- Material: Reinforced Glass Epoxy
- Finish: Gloss White
- Connector: N Female

**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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**VERDANT JD 322 X**

**V/UHF Blade Antenna**

JD 322 X is a broad band (V/UHF) low profile blade antenna with a wide base, designed to be used with multi function communication and direction finding (DF) systems. These antennas are designed as low profile, low drag blade antennas suited for fixed wing aircrafts, helicopters and UAVs. The fibre reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

<table>
<thead>
<tr>
<th>SPECIFICATIONS</th>
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<tbody>
<tr>
<td><strong>ELECTRICAL</strong></td>
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<tr>
<td>Frequency Range</td>
<td>30 MHz - 512 MHz</td>
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<tr>
<td>VSWR</td>
<td>3.1 (Max)</td>
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<tr>
<td>Polarization</td>
<td>Vertical</td>
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<tr>
<td>Radiation Pattern</td>
<td>Omnidirectional in azimuth</td>
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<tr>
<td>Impedance RF</td>
<td>50 Ω</td>
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<td>Static Protection</td>
<td>DC Grounded</td>
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<tr>
<td>Power RF</td>
<td>35 W</td>
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<table>
<thead>
<tr>
<th><strong>MECHANICAL</strong></th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1800 grams (Max)</td>
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<tr>
<td>Height</td>
<td>382 mm (Max)</td>
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<tr>
<td>Material</td>
<td>Glass Epoxy</td>
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<tr>
<td>Finish</td>
<td>Gloss</td>
</tr>
<tr>
<td>Connector</td>
<td>TNC</td>
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<table>
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<tr>
<th><strong>ENVIRONMENTAL</strong></th>
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<tbody>
<tr>
<td>Temperature</td>
<td>-55ºC to +90ºC</td>
</tr>
<tr>
<td>Altitude</td>
<td>50,000 feet</td>
</tr>
</tbody>
</table>

*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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**VERDANT JD 350 A**

**V/UHF Blade Antenna**

JD 350 A is a broadband (V/UHF) low profile blade antenna from the 350 series, designed to be used with multi function communication systems. This antenna is designed as low profile, low drag blade suited for supersonic aircrafts, fixed wing aircrafts and helicopters. The single piece continuous fibre reinforced epoxy shell is designed to meet the stringent MIL requirements of high performance supersonic aircrafts.

### SPECIFICATIONS

**ELECTRICAL**

- **Frequency Range**: 30 MHz – 410 MHz
- **VSWR**: 2.0:1 (Typ), 3.0:1 (Max)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ohms Nominal
- **Power RF**: 50 W

**MECHANICAL**

- **Weight**: 1300 grams (Max)
- **Height**: 320 mm (Max)
- **Material**: Reinforced Glass Epoxy
- **Finish**: PU Gloss
- **Connector**: TNC

**ENVIRONMENTAL**

- **Temperature**: -54°C to +90°C
- **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*
JD 350 B is a broadband (V/UHF/L-Band) low profile blade antenna from the 350 series, designed to be used with multi function communication systems. This antenna is designed as low profile, low drag blade suited for supersonic aircrafts, fixed wing aircrafts and helicopters. The single piece continuous fibre reinforced epoxy shell is designed to meet the stringent MIL requirements of high performance supersonic aircrafts.

**ELECTRICAL**

- Frequency Range: 30 MHz – 410 MHz
- VSWR:
  - 30 MHz - 88 MHz - s:3.0:1
  - 108 MHz - 174 MHz - s:2.5:1
  - 225 MHz - 410 MHz - s:2.5:1
  - 960 MHz - 1240 MHz - s:2.0:1
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ohms Nominal
- Power RF: 50 W

**MECHANICAL**

- Weight: 1300 grams (Max)
- Height: 320 mm (Max)
- Material: Glass Epoxy
- Finish: PU Gloss
- Connector: TNC Female [V/UHF]
  - N Female [L-Band]

**ENVIRONMENTAL**

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

*Contact us for your customized requirements

*All data contained herein is subject to change without notice*
**VERDANT JD 401**

V/UHF Dipole Blade Antenna

JD 401 is a broadband (VHF/UHF) low profile blade antenna to be used with communication systems. These antennas are designed as low profile, low drag blade antennas ideally suited for helicopter, fixed wing aircrafts and UAV. The fibre reinforced epoxy antenna shell is designed to meet stringent MIL requirements.

**SPECIFICATIONS**

**ELECTRICAL**
- Frequency Range: 20 MHz - 1200 MHz
- VSWR: 3.5:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω
- Static Protection: DC Grounded
- Power RF: 25 W

**MECHANICAL**
- Weight: 1450 grams (Max)
- Height: 198 mm (Max)
- Material: Glass Epoxy
- Finish: Grey Satin / Gloss
- Connector: SMA Female

**ENVIRONMENTAL**
- Temperature: -54°C to +71°C
- 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

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JD 470 T3B is a top loaded wide band (VHF/UHF) blade antenna designed to be used with RF communication systems. These antennae are designed as low drag blade antenna ideally suited for UAV/ helicopter/ fixed wing aircrafts. The fibre reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

### SPECIFICATIONS

**ELECTRICAL**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Frequency Range</td>
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<tr>
<td>VSWR</td>
<td>3.0:1 Max (30 MHz - 100 MHz)</td>
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<td></td>
<td>2.5:1 Max (100 MHz - 450 MHz)</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical</td>
</tr>
<tr>
<td>Radiation Pattern</td>
<td>Omnidirectional in azimuth</td>
</tr>
<tr>
<td>Impedance RF</td>
<td>50 Ω (Nominal)</td>
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<tr>
<td>Static Protection</td>
<td>DC Grounded</td>
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<tr>
<td>Power RF</td>
<td>120 W C.W</td>
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**MECHANICAL**

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<td>Height</td>
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<td>Material</td>
<td>Glass Epoxy</td>
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<td>Finish</td>
<td>Gloss</td>
</tr>
<tr>
<td>Connector</td>
<td>TNC Female</td>
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</tbody>
</table>

**ENVIRONMENTAL**

<table>
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<tr>
<th>Parameter</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Temperature</td>
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<tr>
<td>Altitude</td>
<td>50,000 feet</td>
</tr>
</tbody>
</table>

*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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**VERDANT JH 2Y**

VHF Stub Antenna

JH 2Y is a VHF broadband antenna designed to be used in pairs as part of tactical homing system or as single unit for communication. These antennas are designed as low profile, low drag blade antennas with excellent aerodynamic properties ideally suited for high performance military aircrafts. The radiating element is encased in a single piece glass fibre reinforced epoxy shell. This antenna is qualified and suitable for helicopters and subsonic aircrafts.

### ELECTRICAL

<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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<td>Frequency Range</td>
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<td>3:1 (Max)</td>
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<td>Polarization</td>
<td>Vertical (When Mounted Vertically)</td>
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<td>Radiation Pattern</td>
<td>Omnidirectional in azimuth</td>
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<td>Impedance RF</td>
<td>50 Ω</td>
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<tr>
<td>Static Protection</td>
<td>DC Grounded</td>
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<tr>
<td>Power RF</td>
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### MECHANICAL

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<th>Specification</th>
<th>Details</th>
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<tr>
<td>Weight</td>
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<td>Height</td>
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<td>Material</td>
<td>Glass Epoxy</td>
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<tr>
<td>Finish</td>
<td>Gloss</td>
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<tr>
<td>Connector</td>
<td>TNC</td>
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### ENVIRONMENTAL

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<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>Temperature</td>
<td>-55°C to +90°C</td>
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<tr>
<td>Altitude</td>
<td>50,000 feet</td>
</tr>
</tbody>
</table>

*Contact us for your customized requirements

Tests in accordance with MIL 810 F

Dimensions are in mm

Incshes shown in bracket

*All data contained herein is subject to change without notice*
**VERDANT JH 10V**

**VHF Blade Antenna**

JH 10V is a VHF broadband antenna designed to be used in tactical homing system in pairs or as single unit for communication. The radiating element is encased in a single piece glass fibre reinforced epoxy shell. The rugged design and construction of the antenna helps to withstand severe environmental conditions. This antenna is qualified and suitable for helicopters and subsonic aircrafts.

**ELECTRICAL**

- **Frequency Range**: 135 MHz - 175 MHz
- **VSWR**: 2.5:1 (Max)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 Ω
- **Static Protection**: DC Grounded
- **Power RF**: 35 W

**MECHANICAL**

- **Weight**: 1750 grams (Max)
- **Height**: 316 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: TNC

**ENVIRONMENTAL**

- **Temperature**: -55°C to +90°C
- **Altitude**: 50,000 feet

*Contact us for your customized requirements

Tests in accordance with MIL 810 F

*All data contained herein is subject to change without notice*
**VERDANT JH 13H**

VHF Blade Antenna

JH 13H is a VHF broadband antenna designed to be used in pairs as part of tactical homing system or as single unit for communication. These antennas are designed as low profile, low drag blade antennas. The antenna is encased in a single piece glass fibre reinforced epoxy shell. The rugged design and construction of the antenna helps to withstand severe environmental conditions. This antenna is qualified and suitable for helicopters and subsonic aircrafts.

**SPECIFICATIONS**

**ELECTRICAL**
- Frequency Range: 135 MHz - 175 MHz
- VSWR: 2.5:1 (Max)
- Polarization: Horizontal with Vertical Component
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω
- Static Protection: DC Grounded
- Power RF: 35 W

**MECHANICAL**
- Weight: 875 grams (Max)
- Height: 135 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: TNC

**ENVIRONMENTAL**
- Temperature: -55°C to +90°C
- Altitude: 50,000 feet

*Contact us for your customized requirements

Tests in accordance with MIL 810 D

Dimensions are in mm
Inches shown in bracket

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**VERDANT JH 18B**

**VHF Stub Antenna**

JH 18B is a VHF broadband antenna designed to be used in pairs or as single units as part of tactical homing system or as single unit for communication. The antenna is encased in a single piece glass fibre reinforced epoxy shell. The rugged design and construction of the antenna helps to withstand severe environmental conditions. This antenna is qualified and suitable for helicopters and subsonic aircrafts.

### SPECIFICATIONS

#### ELECTRICAL
- **Frequency Range**: 135 MHz - 175 MHz
- **VSWR**: 2.0:1 (Max)
- **Polarization**: Vertical
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 \( \Omega \)
- **Static Protection**: DC Grounded
- **Power RF**: 35 W

#### MECHANICAL
- **Weight**: 475 grams (Max)
- **Height**: 445 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: TNC

#### ENVIRONMENTAL
- **Temperature**: -55°C to +90°C
- **Altitude**: 50,000 feet

*Contact us for your customized requirements*

Tests in accordance with MIL 810 D

Dimensions are in mm
Inches shown in bracket

*All data contained herein is subject to change without notice*
**VERDANT JH 135**

**VHF Low Profile Antenna**

JH 135 is a low profile, light weight airborne vertical stub antenna designed to operate in a frequency band of 135 MHz to 175 MHz. The antenna was designed to be used on Kamov - 28 type helicopters of Indian Navy. These antennas are designed as low profile, low drag stub antennas with excellent aerodynamic properties. The radiating element encased in glass fibre reinforced epoxy shell capable of withstanding extreme environmental conditions. This antenna is qualified and suitable for helicopters and supersonic aircrafts.

### SPECIFICATIONS

**ELECTRICAL**

- **Frequency Range**: 135 MHz - 175 MHz
- **VSWR**: 3.5:1
- **Polarization**: Vertical (When mounted vertically)
- **Radiation Pattern**: Omnidirectional in azimuth
- **Impedance RF**: 50 ohms Nominal
- **Static Protection**: DC Grounded
- **Power RF**: 35 W

**MECHANICAL**

- **Weight**: 390 grams (Max)
- **Height**: 126 mm (Max)
- **Material**: Glass Epoxy
- **Finish**: Gloss
- **Connector**: TNC Female

**ENVIRONMENTAL**

- **Temperature**: -55°C to +90°C
- **Altitude**: 50,000 feet

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<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>278</td>
<td>[10.95] MAX</td>
</tr>
<tr>
<td>12.8</td>
<td>[0.49] MAX</td>
</tr>
<tr>
<td>16</td>
<td>[0.63] MAX</td>
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<tr>
<td>3.21</td>
<td>MAX</td>
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<tr>
<td>23</td>
<td>[0.89]</td>
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<tr>
<td>30.25</td>
<td>[1.19]</td>
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<tr>
<td>60.50</td>
<td>[2.38]</td>
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<tr>
<td>16</td>
<td>[0.63]</td>
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<tr>
<td>58.5</td>
<td>[2.30] MAX</td>
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<tr>
<td>6 Mounting Holes: Ø5.41, Ø6.21, Ø11.8, Ø10.39</td>
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</tbody>
</table>

*Contact us for your customized requirements

Tests in accordance with MIL 810 F

*All data contained herein is subject to change without notice*
VERDANT JL 02 A
L-Band Blade Antenna

This antenna belongs to the JL 02 Series and is designed to be used for communication and navigation. The design ensures excellent omni-directional pattern over the entire band. These antennas are designed to be low profile, low drag stub antennas designed to withstand severe environmental conditions. This antenna is ideally suited for high performance supersonic aircrafts.

**ELECTRICAL**
- **Frequency Range**: 960 MHz – 1240 MHz
- **VSWR**: 2.5:1
- **Polarization**: Vertical
- **Radiation Pattern**: Essentially Omnidirectional in azimuth
- **Impedance RF**: 50 Ohms Nominal
- **Static Protection**: DC Grounded
- **Power RF**: 50 W

**MECHANICAL**
- **Weight**: 115 grams (Max)
- **Height**: 76 mm (Max)
- **Material**: Reinforced Glass Epoxy
- **Finish**: PU Gloss
- **Connector**: TNC

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

*Contact us for your customized requirements*

Tests in accordance with MIL 810 F

*All data contained herein is subject to change without notice*
**VERDANT JU 801**  
UHF Blade Antenna

JU 801 is a UHF broadband antenna designed to be used for communication and navigation. These antennas are designed as low profile, low drag blade antennas with excellent aerodynamic properties. The radiating element is encased in a single piece glass fibre reinforced epoxy radome. This antenna is suitable for subsonic aircrafts, helicopters as well as UAV.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th><strong>ELECTRICAL</strong></th>
<th></th>
<th><strong>MECHANICAL</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>225 MHz - 400 MHz</td>
<td>Weight</td>
</tr>
<tr>
<td>VSWR</td>
<td>2.5:1 (Max)</td>
<td>Height</td>
</tr>
<tr>
<td>Polarization</td>
<td>Vertical</td>
<td>Material</td>
</tr>
<tr>
<td>Radiation Pattern</td>
<td>Omnidirectional in azimuth</td>
<td>Finish</td>
</tr>
<tr>
<td>Impedance RF</td>
<td>50 Ω</td>
<td>Connector</td>
</tr>
<tr>
<td>Static Protection</td>
<td>DC Grounded</td>
<td></td>
</tr>
<tr>
<td>Power RF</td>
<td>50 W</td>
<td></td>
</tr>
</tbody>
</table>

*Contact us for your customized requirements*

### ENVIRONMENTAL

| Temperature | -55°C to +90°C |
| Altitude | 60,000 feet |

*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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Website : www.verdanttelemetry.com

JU 802 is a UHF broadband antenna designed to be used for communication and navigation. These antennas are designed as low profile, low drag blade antennas with excellent aerodynamic properties. The radiating element is encased in a single piece glass fibre reinforced epoxy radome. This antenna is suitable for subsonic aircrafts, helicopters, as well as UAV.

**ELECTRICAL**
- Frequency Range: 450 MHz - 550 MHz
- VSWR: 2.5:1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω
- Static Protection: DC Grounded
- Power RF: 50 W

**MECHANICAL**
- Weight: 365 grams (Max)
- Height: 180 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: TNC

**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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VERDANT JU 851
UHF Blade Antenna

JU 851 is a UHF broadband antenna designed to be used for communication and navigation. These antennas are designed as low profile, low drag blade antennas with excellent aerodynamic properties, ideally suited for high performance military aircrafts. The radiating element is encased in a single piece glass fibre reinforced epoxy radome. This antenna is suitable for supersonic aircrafts.

**ELECTRICAL**
- Frequency Range: 225 MHz - 400 MHz
- VSWR: 2.1 (Max)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω
- Static Protection: DC Grounded
- Power RF: 50 W

**MECHANICAL**
- Weight: 425 grams (Max)
- Height: 230 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: N Female

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

*Contact us for your customized requirements

Tests in accordance with MIL 810 F

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