**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.

### ELECTRICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>30 MHz - 512 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>3:1 (30 MHz - 100 MHz)</td>
</tr>
<tr>
<td></td>
<td>2.5:1 (100 MHz – 225 MHz)</td>
</tr>
<tr>
<td></td>
<td>2.1 (225 MHz - 512 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>
</tr>
<tr>
<td>Static Protection</td>
<td>DC Grounded</td>
</tr>
<tr>
<td>Power RF</td>
<td>50W</td>
</tr>
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</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
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<tr>
<td>Height</td>
<td>120 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 Female</td>
</tr>
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</table>

### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<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

*All data contained herein is subject to change without notice

Dimensions are in mm

Inches shown in bracket

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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: -55°C 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.

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**SPECIFICATIONS**

**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

*Tests in accordance with MIL 810 F*

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Dimensions are in mm

Inches shown in bracket

*All data contained herein is subject to change without notice*
**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.

### ELECTRICAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>30 MHz - 550 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>2.7:1 (Max)</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>
</tr>
<tr>
<td>Static Protection</td>
<td>DC Grounded</td>
</tr>
<tr>
<td>Power RF</td>
<td>35 W CW</td>
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### MECHANICAL

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<thead>
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<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
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<tr>
<td>Height</td>
<td>305 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>N Female</td>
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### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Temperature</td>
<td>-55°C to +90°C</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 810D

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 SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>30 MHz - 550 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>2.7:1 [Max] [30 MHz - 150 MHz]</td>
</tr>
<tr>
<td></td>
<td>2.2:1 [Max] [150 MHz - 550 MHz]</td>
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<tr>
<td></td>
<td>&lt;1.8:1 (Typical) [Over the band]</td>
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<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</td>
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<td>Static Protection</td>
<td>DC Grounded</td>
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<tr>
<td>Power RF</td>
<td>40W CW</td>
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### MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>800 grams [Max]</td>
</tr>
<tr>
<td>Height</td>
<td>305 mm [Max]</td>
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<tr>
<td>Material</td>
<td>Glass Epoxy</td>
</tr>
<tr>
<td>Finish</td>
<td>Gloss</td>
</tr>
<tr>
<td>Connector</td>
<td>N Female</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL SPECIFICATIONS

- Temperature: -54°C to +90°C
- Altitude: 50,000 feet
- Static Protection: DC Grounded

*Contact us for your customized requirements

Tests in accordance with MIL 810 D/E/F

Dimensions are in mm

Inches shown in bracket

*All data contained herein is subject to change without notice
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 Q
- 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: -55ºC to +90º C
- Altitude: 60,000 feet

Tests in accordance with MIL 810 F

*Contact us for your customized requirements

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**: -55º C to +90º 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 305 N5A**

V/UHF Top Loaded Blade Antenna

JD 305 N5A is a top loaded broadband (VHF/UHF) antenna with a wider base, designed to be used with RF Communication Systems. It is configured as a high power, low profile blade antenna ideally suitable for propeller aircrafts and helicopters. The fiber reinforced epoxy antenna shell is designed to meet the stringent MIL requirements.

### Specifications

**Electrical**
- Frequency Range: 30 MHz - 1250 MHz
- VSWR: 3:1 (30 MHz - 100 MHz), 2.5:1 (100 MHz - 1250 MHz)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω
- Power RF: 1000 W Peak
- VSWR: 3:1 (30 MHz - 100 MHz), 2.5:1 (100 MHz - 1250 MHz)

**Mechanical**
- Weight: 1600 grams (Max)
- Height: 300 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: N Type

**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

*All data contained herein is subject to change without notice*

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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.

### SPECIFICATIONS

**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

*Contact us for your customized requirements

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Tests in accordance with MIL 810 F

Dimensions are in mm

Inches shown in bracket

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Website : www.verdanttelemetry.com

**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.

**ELECTRICAL**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency Range</td>
<td>30 MHz - 512 MHz</td>
</tr>
<tr>
<td>VSWR</td>
<td>3.1 (Max)</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</td>
</tr>
<tr>
<td>Static Protection</td>
<td>DC Grounded</td>
</tr>
<tr>
<td>Power RF</td>
<td>35 W</td>
</tr>
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</table>

**MECHANICAL**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>1800 grams (Max)</td>
</tr>
<tr>
<td>Height</td>
<td>382 mm (Max)</td>
</tr>
<tr>
<td>Material</td>
<td>Glass Epoxy</td>
</tr>
<tr>
<td>Finish</td>
<td>Gloss</td>
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<tr>
<td>Connector</td>
<td>TNC</td>
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</table>

**ENVIRONMENTAL**

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

Tests in accordance with MIL 810 F

*Contact us for your customized requirements

Dimensions are in mm

Inches shown in bracket

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**VERDANT JD 322 T**

**V/UHF Top Loaded Blade Antenna**

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

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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*
VERDANT JD 350 B
V/UHF/L - Band Blade Antenna

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 960 MHz - 1240 MHz
30 MHz - 88 MHz - <= 3.0:1
108 MHz - 174 MHz - <= 2.5:1
225 MHz - 410 MHz - <= 2.5:1
960 MHz - 1240 MHz - <= 2.0:1

Material Glass Epoxy
Finish PU Gloss
Connector TNC Female [V/UHF]
N Female [L-Band]

MECHANICAL

Weight 1300 grams (Max)
Height 320 mm (Max)

Polarization Vertical
Impedance RF 50 Ohms Nominal
Static Protection DC Grounded
Power RF 50 W

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
**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: -54ºC to +71ºC
- 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
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**
- Frequency Range: 30 MHz - 450 MHz
- VSWR: 3.0:1 Max (30 MHz - 100 MHz)
- 2.5:1 Max (100 MHz - 450 MHz)
- Polarization: Vertical
- Radiation Pattern: Omnidirectional in azimuth
- Impedance RF: 50 Ω (Nominal)
- Static Protection: DC Grounded
- Power RF: 120 W C.W

**MECHANICAL**
- Weight: 3300 grams (Max)
- Height: 470 mm (Max)
- Material: Glass Epoxy
- Finish: Gloss
- Connector: TNC Female

**ENVIRONMENTAL**
- Temperature: -57°C to +85°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