

QHA-2438

MUOS SATCOM Quadrifilar Helix



DESCRIPTION

The QHA-2438 is a quadrifilar helix antenna designed for UFO and MUOS SATCOM band and vehicular use.

The hybrid spiral antenna operates within frequencies from 244 to 270 MHz, 292 to 320 MHz, and 360 to 380 MHz. It has also been optimized for the MUOS bands.

The unique pattern is designed for cardioid shaped gain overhead to 10° in elevation where SATCOM links are more difficult to close. It can be mounted on a vehicle surface (with no degradation to neither the pattern nor VSWR) and is ground plane independent.



Right-Hand Helix Comms Antenna

SPECIFICATIONS

ELECTRICAL

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|----------------|--|
| Frequency Band | 240 MHz to 380 MHz |
| VSWR | < 1.5 : 1 |
| Polarization | Right-Hand Circular |
| Gain | > -8 dBiC at 10° to 30° Elevation > +1 dBiC at 30° to 70° Elevation > 0 dBiC at 70° to 90° Elevation |
| Power | 50+ Watts CW |
| Ground Plane | Ground Plane Independent |
| Connector | Type N Female TNC Female (Upon Request) |

ENVIRONMENTAL

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|-------------------|----------------------------------|
| Shock | MILSTD 810F, 20G |
| Operational Temp. | -31°F to +185°F (-35°C to +85°C) |

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| Vibration | MIL-STD-810G, Method 514.6 Procedure I, Table 514.6C-VL |
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MECHANICAL

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| Weight | 7 lbs (3.15 kg) |
| Dimensions | 15.5" H x 13" Dia. (39.3 cm H x 33 cm Dia.) |
| Mounting | Available Upon Request |
| Finish (Default) | Strobe White |

MODEL NUMBERS

| | |
|---------------------|-------------|
| Black Color | QHA-2438-B |
| Tan 686A Color | QHA-2438 -T |
| Green 383 Color | QHA-2438 -G |
| Aircraft Gray Color | QHA-2438-AG |