

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

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

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

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

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