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.

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)

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

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

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

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