

HSA-2438

MUOS SATCOM Spiral Antenna

Description

The HSA-2438 is a hybrid spiral antenna designed for UFO and MUOS SATCOM band and vehicular use. The antenna operates on 244 – 270 MHz, 292 – 320 MHz, and 360 – 380 MHz and has been optimized for the MUOS bands. The unique pattern is designed for cardioid shaped gain overhead to 10 degrees in elevation where SATCOM links are more difficult to close. The hybrid spiral antenna can be mounted on a vehicle surface with no degradation to the pattern or VSWR and is ground plane independent.



Specifications

Electrical

Frequency Band	240 – 380 MHz
VSWR	< 1.5 : 1
Polarization	Right Hand Circular
Gain	> -2 dBic (10° to 30° Elevation) > 1 dBic (30° to 70° Elevation) > 0 dBic (70° to 90° Elevation)
Power	50 Watts CW
Ground Plane	Ground Plane Independent
Connector	Type N Female (Standard) TNC Female (Optional)

Mechanical

Weight	6 lbs (2.7 kg)
Dimensions	8" Height x 20" Diameter
Finish	Strobe White (Default) FED-STD-595 37030 (Black) FED-STD-595 34094 (Green 383) FED-STD-595 33446 (Tan 686A)
Vibration	MIL-STD-810G, Method 514.6, Procedure I, Table 514.6C-VL