HSA-2438
MUOS SATCOM Spiral Antenna

DESCRIPTION
The HSA-2438 is a hybrid spiral antenna designed for MUOS SATCOM band and vehicular use. It is optimized for MUOS bands within frequencies between 244 to 270 MHz, 292 to 320 MHz, and 360 to 380 MHz.

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 the pattern or VSWR and is ground plane independent.

SPECIFICATIONS

ELECTRICAL
Frequency Band 240 MHz to 380 MHz
VSWR < 1.5 : 1
Polarization Right-Hand Circular
Gain > -2 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)

MECHANICAL
Weight 6 lbs (2.7 kg)
Dimensions 8” H x 20” Dia
(20.3 cm H x 50.8 cm Dia)
Mounting Available Upon Request
Finish (Default) F63W12 White Polyurethane Enamel

ENVIRONMENTAL
Shock MILSTD 810F, 20G
Vibration RTCA/DO-160
Operational Temp. -31°F to +185°F (-35°C to +85°C)

MODEL NUMBERS
Black Color HSA-2438-B
Tan 686A Color HSA-2438-T
Green 383 Color HSA-2438-G
Aircraft Gray Color HSA-2438-AG