

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.



MUOS SATCOM Spiral Antenna

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) |

ENVIRONMENTAL

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

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 |

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 |