

## ENHANCED-CLS 2 OMNIDIRECTIONAL ANTENNA

### Reliable ROVER® links in today's battlefield environment

The Enhanced-CLS 2 (E-CLS 2) antenna updates the widely fielded E-CLS antenna with capabilities to match today's electronics-heavy environments. New tunable receive channel filtering and increased output power ensure your ROVER® system will link up more reliably than ever before, bringing critical data to the warfighter.

#### PRODUCT DESCRIPTION

The Enhanced-CLS 2 Omnidirectional Antenna receives in C, L and S Bands, and transmits in L and S Bands. This second generation has dramatically improved the ability to pick out a desired signal in the presence of other nearby interfering signals by including tunable channel filtering. On the transmit side, maximum output power mode can improve the range by as much as 50%.

The E-CLS 2 is a form, fit and function replacement for its predecessor and is compatible with both the ROVER 6 and the ROVER 6S transceivers.

Upgrades from E-CLS to E-CLS 2 are available.



Maximize the performance  
of your ROVER 6 or  
ROVER 6S system

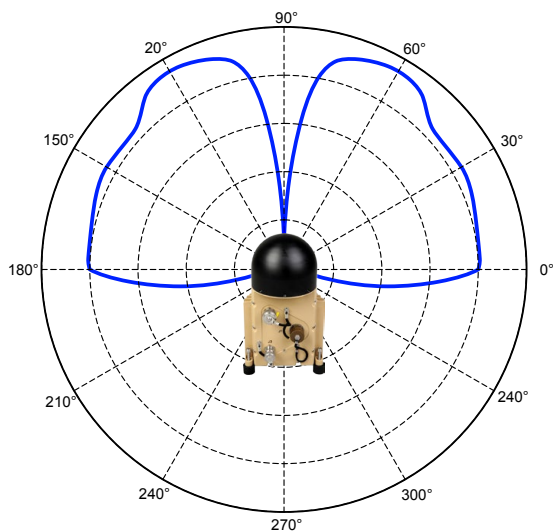
#### KEY FEATURES

- > Improved performance in crowded RF environments
- > Integrated SSPA, low-noise amplifier and band-pass filtering
- > Transmit or receive operation (not simultaneously)
- > Integrated automatic band switching
- > Tunable receive channel filtering
- > Maximum transmit power mode
- > Linear vertical polarization

## SPECIFICATIONS

### RF PERFORMANCE CHARACTERISTICS

- > Transmit and receive capability (not simultaneously)
  - C-Band: 4400 MHz to 4850 MHz (Rx only)
  - S-Band: 2025 MHz to 2110 MHz, 2200 MHz to 2500 MHz
  - L-Band: 1625 MHz to 1850 MHz
- > Maximum antenna gain: 2 dBi C-Band, 1.5 dBi S-Band, 0 dBi L-Band
- > Total gain: 15 dB to 25 dB
- > Legacy mode noise figure: < 4.5 dB (all bands)
- > Enhanced mode noise figure: < 5.1 dB (C-Band), < 5.3 dB (S-Band), < 5.7 dB (L-Band)
- > Minimum band-to-band signal rejection: 40 dB
- > Minimum adjacent channel signal rejection: 30 dB
- > OIP3: 20 dBm



### ANTENNA SWAP

- > Size: 8.15" (h) x 4.92" (w) x 4.34" (l)
- > Weight: ~3.5 lb.
- > Output power: 29 dBm (at antenna feed)
- > Max power mode: 33 dBm (without spectral mask optimization)



### Enhanced-CLS 2 Omnidirectional Antenna

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