

TACTICAL ROVER® Ku ANTENNA

Ku-Band Handheld Radio-Mounted Antenna

The L3Harris Tactical ROVER Ku Antenna is an excellent solution where a medium-gain, rugged, small form factor or handheld radio mounted antenna is needed. Our omnidirectional antenna includes a built-in low noise amplifier and downconverter circuitry that can be powered by DC offset on the TNC interface connector when paired with L3Harris successful handheld Tactical ROVER line of products.

PRODUCT DESCRIPTION

The L3Harris Tactical ROVER Ku Antenna is a compact, programmable, receive-only antenna with built-in low noise amplifier (LNA) for use in a variety of handheld and mobile applications. Ruggedized design and environmentally sealed packaging provide reliable communications in harsh operating conditions. Directly mounts to the radio or can be connected through a coaxial cable for remote placement of the antenna. Weighing less than 7.1 ounces, this antenna is an extremely versatile, multi-application solution for law enforcement, emergency services or military use.



Versatile, Small Form Factor, Ku-Band Antenna

KEY FEATURES

- > Down converts Ku-Band signals to S-Band
- > Excellent gain-to-size-ratio antenna element
- > Built in low noise amplifier
- > Rugged, water/dust-sealed design
- > TNC RF interface connector with easy thumbscrew
- > Powered over the RF connection via DC offset
- > Compatible with L3Harris handheld Tactical ROVER products

SPECIFICATIONS

Physical Characteristics

Size:

- > 4.42" (l) x 1.31" (dia)

Weight:

- > < 7.1 oz.

Ku Antenna Connector

- > TNC male (J1)

Performance Characteristics

Antenna RF

- > Impedance: 50 ohms
- > Frequency range:
 - 14.4 GHz to 14.83 GHz
 - 15.15 GHz to 15.35 GHz
- > Max input power without damage: -15 dBm in
- > Tuning resolution: 1.0 MHz
- > Noise figure: 3.5 dB (max)
- > Ku-Band element gain:
 - > 17 db at 30° elevation

DC Input Power

- > Nominal: +12 VDC
- > Max current: 0.14 A
- > Max power: 1.68 W

Temperature

- > Operational:
 - 40 °C to +65 °C
- > Non-operational/storage:
 - 40 °C to +85 °C

Altitude

- > -100 ft. to 40,000 ft. MSL

Command/Status

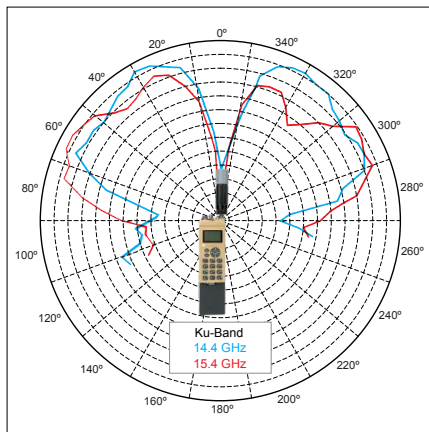
The Tactical ROVER® Ku Antenna requires Command and supports Status Requests via the RF connector.

Commands:

- > Frequency

Status:

- > Downconverter type
- > PLL lock
- > Temperature
- > Frequency



Gain Pattern Plot



Antenna mounted on ROVER handheld



Compact antenna for use in a variety of applications



Compatible with a variety of commercially available vehicle mounts

Tactical ROVER Ku Antenna

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