

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



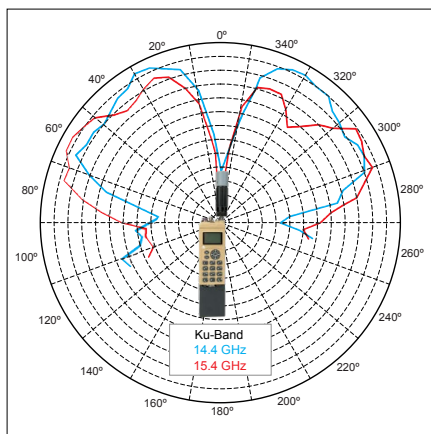
Antenna mounted on ROVER handheld



Compact antenna for use in a variety of applications



Compatible with a variety of commercially available vehicle mounts



Gain Pattern Plot

Tactical ROVER Ku Antenna

© 2020 L3Harris Technologies, Inc. | 12/2020 | BCS | 17-DSH-173 | Rev-201

These item(s)/data have been reviewed in accordance with the International Traffic in Arms Regulations (ITAR), 22 CFR part 120.11, and the Export Administration Regulations (EAR), 15 CFR 734(3)(b)(3), and may be released without export restrictions.

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

Use of U.S. DoD information does not imply or constitute DoD endorsement.



L3HARRIS®
FAST. FORWARD.

1025 W. NASA Boulevard
Melbourne, FL 32919
t 833 537 6837
CSW.Products@L3Harris.com