

DATASHEET

Antenna model UL-2441-A223

This antenna was originally developed for use in an official helicopter mounted 2.4 GHz ISM application. Its housing was designed for use on a C-130 and other low speed aircraft. Its ungrounded design allows it to be used as a broadband receiving antenna well below its operating range and up to 4 GHz, where it begins to multi-mode.

Frequency range: 1.2-2.8 GHz
Coverage: Omni-directional, low azimuthal ripple
Polarization: Linear, Vertical
Gain: +2 to +4 dBil
Nominal Impedance: 50 ohm (RF), Open Circuit (DC)
VSWR: 2.0

Connector: TNC, Female

Dimensions: Housing 5 cm (2") OD x 7.6 cm (3") h
 Mounting flange 7.8 cm (3.05") OD x 3 mm (0.12") h

Mounting: 8 x #10-32, 100° screws
 Connector requires a 1.00" hole

Operating Temperatures: -40°C to +85°C

Altitude: Housing tested to equivalent of 50,000 ft

NOTES:

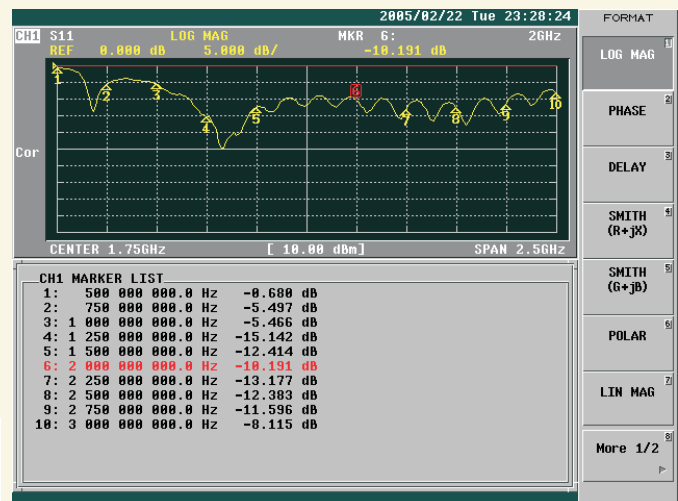
Requires a ground plane (normally mounts on a metal body)

This product is not FAA certified for civilian aircraft

This antenna is subject to export controls

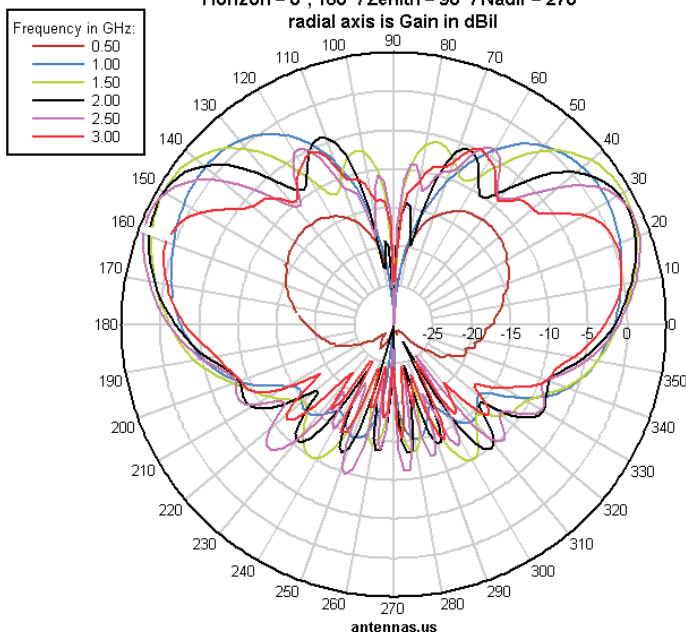
Does not meet grounding per MIL-E-5400

MIL-E-5400 grounding version UL-2441-AM223 is upcoming



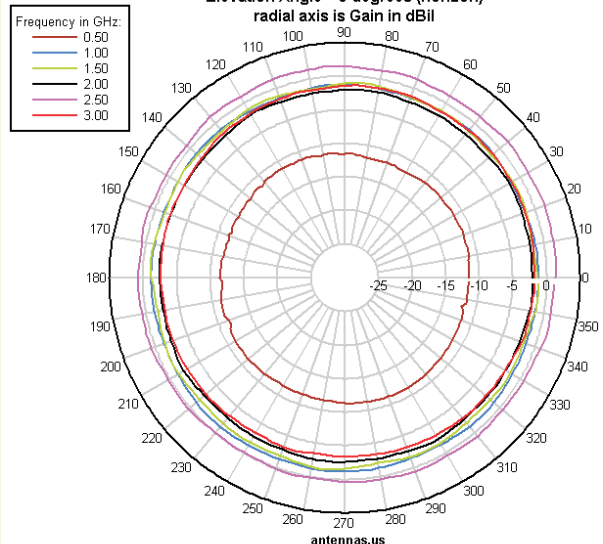
UL-2441-A223 Elevation Pattern - Polarization VPOL

Horizon = 0°, 180° / Zenith = 90° / Nadir = 270°
 radial axis is Gain in dBil



UL-2441-A223 Azimuthal Pattern - Polarization VPOL

Elevation Angle = 0 degrees (horizon)
 radial axis is Gain in dBil



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