COJOT
MORE THAN ONE WAVELENGTH

Wideband UHF/SHF Vehicle Antenna
WB460M

The WB460M is a compact, light and low-profile vehicle antenna that is ideally suited for various applications within the 430 – 6000 MHz frequency range. The radiation performance is especially optimal for ground to air applications such as LINK-16.

- Ideal operation in the UHF / SHF bands up to 6 GHz
- Suitable for applications such as: *5G, LTE,* LINK-16, *Soldier Radio Waveform, WLAN & ISM 2.4 & 5 GHz, WiMAX*

Product details*	
Frequency range	430 – 6000 MHz on a ground plane (≥ 0.5 x 0.5 m^2) 800 - 6000 MHz (without a ground plane)
Polarization	Nominally vertical
Radiation pattern	Omnidirectional
Gain	(See measured patterns on Page 2)
VSWR	≤ 3.0
Nominal Impedance	50 Ω
Power rating	100 W (RMS)
Standard color	Black
Radiator	Radome protected
Height	110 mm
Weight	0.4 kg

Installation*	
RF connection	Female N-type
Mounting	4-hole US and 3/6-hole NATO pattern mount

*Specific adjustments on request

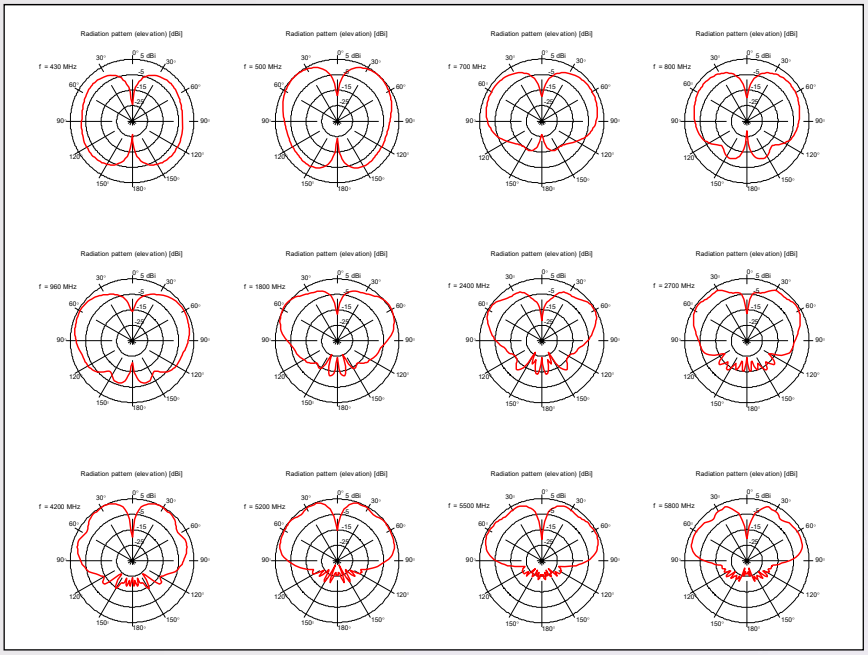
Order number	Product
WB460M	Antenna as described above

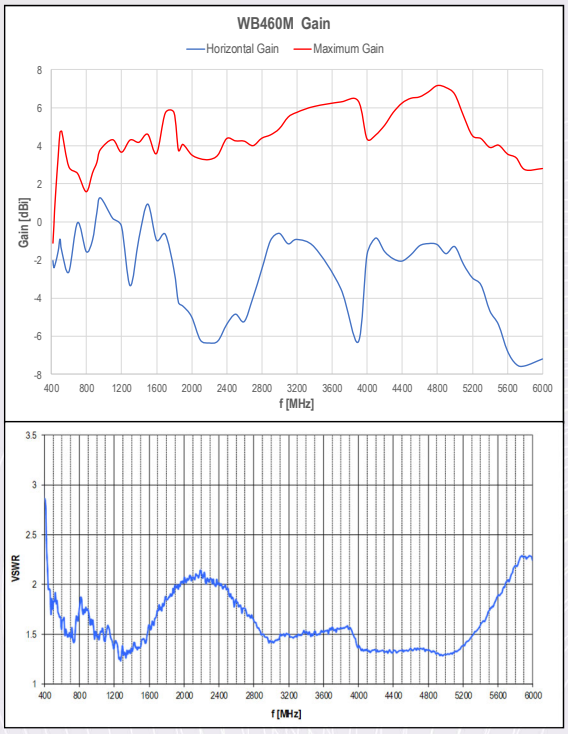
In combination with a mounting accessory the antenna can be easily used for mast mounting and other fixed installations.

V1.1
Date 02.07.2019

Radiation performance
WB460M

Measured free space radiation patterns, antenna gain and VSWR response with the antenna mounted in the centre of a 1.0 m x 1.0 m ground plane:





For perfect operation there should be free space around the antenna.

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Environmental specifications
WB460M

Environmental specifications	
Temperature range (operating)	-40 ... +71 ºC
Temperature range (storage)	-40 ... +85 ºC
Humidity	MIL-STD-810E Method 507.3 Procedure III (cycle with extreme at 95 % RH, +60 ºC)
Shock	MIL-STD-810F, Method 516.5 Procedure I (terminal peak sawtooth shock pulse, peak 40 g, duration 11 ms, three shocks in each of three orthogonal axes in both positive and negative direction)
Random Vibration	MIL-STD-810F, Method 514.5 Category 24 – All material – minimum integrity test, exposure levels according to Figure 514.5C-17
Blowing Rain	MIL-STD-810F, Method 506.4 Procedure I (rainfall rate 150 mm/h, wind speed 30 m/s)
Water Immersion	MIL-STD-810F, Method 512.4 Procedure I (depth 1 m)
Wind Speed	190 km/h