

CVL-WLF

PRODUCT OVERVIEW | Covert Antenna, LTE Broadband (694-2700 MHz)

Mobile Mark's new CVL-WLF Series Covert Antenna covers all Cellular & LTE networks from the 694 MHz to 2.7 GHz, including 3G/4G, AWS, UMTS and LTE. This antenna is ideal for modems with high data throughput that are designed to operate on multiple networks worldwide.

The antenna is broadbanded enough that it can be stocked for multiple modems. Regardless of where the modem is designed for use, the antenna is designed to provide efficient coverage on the bands that operate in that country.

The antenna has excellent performance characteristics and performs well at all points in the operating frequencies bands. The CVL-WLF antenna offers 2 dBi gain with a VSWR rating of under 2:1 across the bandwidth.

The CVL-WLF has a very slim profile: the depth of the antenna is less than 1/4" (.6 cm). The overall dimensions are also small. The antenna is approximately 5 3/4" long, including the mounting holes, and 1 1/2" wide (14.6 cm x 3.8 cm).

The antenna features an over-molded plastic radome made from UV stable polyamide that allows some flexing of the antenna case. This flexibility, along with the antenna's slim profile, allows it to fit into a wide variety of mounting locations. The CVL-WLF can be mounted either outside or inside a stand-alone device, a NEMA box or a vehicle.

If mounted inside, the enclosure must be non-metallic; in other words the enclosure must be built out of a material such as plastic or fiberglass that will not block the transmission signal.

This antenna is typically configured with 8 feet (2.5m) of RG-174 cable and an SMA plug connector. Other cable lengths or connector options are available.

The antenna comes with two built-in grommet holes for an easy and secure installation. If the mounting holes are not needed and space is an issue, the mounting holes can be cut off. If the mounting holes are not used the antenna can be mounted with double sided tape.

This CVL-WLF antenna is completely encased in plastic and meets the water & dust ingress rating of IP69. In addition, it passes the following Military and Industrial standards for Shock & Vibration: IEEE-147, EN61373, TIA329.2-C and MIL-810G.



Model Variations

CVL-WLF-2B
(RG-174 with Mini-UHF Plug)

CVL-WLF-2C
(RG-174 with SMA Male Plug)

CVL-WLF-2J
(RG-174 with RP-SMA Plug)

CVL-WLF-2S
(RG-174 with Right-Angle SMA Plug)

Specifications

Frequency:	694-960 MHz 1700-2700 MHz	Dimension:	5 3/4" L x 1 1/2" W x 1/4" H (14.6cm x 3.8cm x .6cm)
Gain:	2 dBi	Mounting:	Two .19" mounting hole or Double sided tape
VSWR:	2:1	Cables:	8 ft. long RG-174 standard
Radome Material:	UV Stable Polyamide	Connectors:	SMA Plug (Male)
Nominal Impedance:	50 Ohm (nominal)	Shock and Vibration:	IEEE1478, EN61373, MIL-810G, TIA 329.1-C
Max power:	10 watt	Water Ingress:	IP69
Operating Temp:	-40 to +85° C		
Color:	Black		