



CVL Antenna

Overmolded Dual Band Antenna, 2.4-6.0 GHz

- Innovative overmolded design and 3 dBi gain
- WiFi capability on the 2.4-2.5 GHz and 4.9-6.0 GHz bands.
- Uses RG-174 for the single connection

Mobile Mark's new CVL 2400/5500 Series Covert Antenna covers WiFi 6 from 2.4 - 2.5 & 4.9 - 6.0 GHz. This antenna is ideal for WiFi modems with high data throughput.

The antenna has excellent performance characteristics and performs well at all points in the operating frequencies bands. This CVL antenna offers 3 dBi gain peak with a VSWR rating of under 2:1 across the bandwidth.

This CVL also has a very slim profile: the depth of the antenna is less than .08" (2 cm). The overall dimensions are also small. The antenna is approximately 2.41" long, including the mounting holes, and 0.65" wide (61.1 cm x 16.5 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 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 (244 cm) 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 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 # | Cable |
|-------------------------|---------------------|
| CVL-2400/5500-2C-BLK-96 | 8' (244 cm), RG-174 |

| Specifications | | | |
|--------------------|----------------------------|----------------------|---------------------------------------------|
| Frequency: | 2.4-2.5 GHz 4.9-6.0 GHz | Dimension: | 2.41"L x 0.65"W (61.1mm x 16.5mm) |
| Gain: | 3 dBi | Cables: | 8 ft. long RG-174 standard |
| VSWR: | <2:1 | Connectors: | SMA Plug (Male) |
| Radome Material: | UV Stable Polyamide | Shock and Vibration: | IEEE1478, EN61373, MIL-810G, TIA 329.1-C |
| Nominal Impedance: | 50 Ohm (nominal) | Water Ingress: | IP69 |
| Max power: | 10 watt | | |
| Operating Temp: | -40 to +80° C | | |
| Color: | Black | | |