



CV0 Series Covert Tri-Band

These tri-band antennas provide operation on GPS and various Cellular combinations including both US and European bands. These antennas can be mounted on the roof of a vehicle, a light bar, or even on the top of a cargo container.

GPS performance is 26 dB, with 5 dBi antenna gain. They have a low noise figure (1.7 dB typical) with excellent filter characteristics. Power for the built in GPS amplifier can be 2.7 to 5 VDC, making these units universal.

The CV0 Series is enclosed in a stylish case of 4.75" L x 3.6" W x 0.88" H (121 mm x 91 mm x 22 mm). The case is water resistant and can be mounted on the exterior of any metal or plastic surface without worry. It uses double sided mounting tape; screw ear holes are also provided for screw/bolt mount. A special channel in the bottom of the unit allows the cable to be routed either out the side, or straight down (through a pre-drilled surface hole).

All models are outfitted with separate cabling for the Cellular and GPS bands. The cable for the GPS feed is 15 ft (4.5 meters) of RG-174. The cable for Cellular band feed is 15 ft (4.5 meters) of RG-58.

Covert Antennas

Cellular 806-1990 MHz & GPS

- Flatpack design with weatherproof ABS case
- High performance GPS with 26 dB active amplifier
- Broadband PCB antenna with separate cable for Cellular & GPS bands
- Tape mount; & holes for screw mounting

A variety of connector configurations is available, please see model number configurator below for full configurations.

| Model Configurator | | | | | |
|---|-------------------|-----------------------|--------------|---------------------------|------------------|
| CV0- <input type="text"/> <input type="text"/> <input type="text"/> - <input type="text"/> <input type="text"/> <input type="text"/> -BLK-180 | | | | | |
| Frequency Option | | | | | |
| Cable/Connector 1 | | | | | |
| Cable/Connector 2 | | | | | |
| Example: CV0-U15-1C2C-BLK-180 CV0-N15-1A2D-BLK-180 | | | | | |
| <u>Freq. Options:</u> | | <u>Cable Options:</u> | | <u>Connector Options:</u> | |
| <u>Code</u> | <u>Freq.(MHz)</u> | <u>Code</u> | <u>Cable</u> | <u>Code</u> | <u>Connector</u> |
| U15 | 850/1900/GPS | 1 | RG-58 | A | TNC |
| C15 | 925/1900/GPS | 2 | RG-174 | B | Mini UHF |
| E15 | 925/1800/GPS | 3 | RF-195 | C | SMA |
| N15 | 837/1900/GPS | | | D | SMB |
| | | | | E | MCX |

(Other Configurations available.)

| Specifications | | | |
|----------------------|--|------------------------|--|
| Frequency: | | Current: | 20 mA max, 10 mA typical |
| GPS | 1575.42 +/- 2 MHz | Cable: | RG-174, 15 ft (4.5 meters) |
| U15 | 824-894 MHz/1850-1990 MHz | Cable 1 (GPS) | RG-58, 15 ft, (4.5 meters) |
| C15 | 870-960 MHz/1850-1990 MHz | Cable 2 (Cellular/PCS) | |
| E15 | 870-960 MHz/1710-1880 MHz | Case: | 4.75" L x 3.6" W x 0.88" H (121 mm x 91 mm x 22 mm) |
| N15 | 806-870 MHz/1850-1990 MHz | Case Material: | ABS plastic, black |
| Cellular / PCS Gain: | Unity | Mounting: | Double sided tape (provided), or screw/bolt ear holes |
| GPS Gain: | 26 dB LNA 5 dBi nominal RHCP, Antenna | Connector: | SMA/SMA standard |
| VSWR: | 2:1 max over all bands | Shock & Vibration: | EN 61373, IEEE 1478, MIL-810G |
| Noise Figure: | 2.0 dB max, 1.7 dB typical | Water Ingress: | TIA-329.2-C |
| Operating Temp: | -40° to +85° C | | IPx5 |
| Nominal Impedance: | 50 ohms | | |
| Maximum Power: | 10 Watts (800/900 MHz Band) | | |
| Amplifier Bias: | 2.7 to 5 VDC | | |