Product Specifications

MOBILE MARK®
COMMUNICATIONS ANTENNAS

CVX Series
Mini-Covert
Dual Band

CVT Series
Micro-Covert
Dual Band

Covert GPS Antenna (Pat. Pnd.)

Dual Band 900 MHz & GPS

- Miniature & Micro Covert models, in stylish ABS case styles
- High performance GPS with 27 dB active amplifier
- Built in cellular antennas with separate RG-174 cables
- Double sided adhesive tape for mounting in hidden locations

These new antennas are a marvel in RF circuitry. Incorporating GPS antennas with LNA, and a 900 MHz antenna, these products are the solution for a variety of installations. Typical installations include inside a tail-light, hidden in the back deck of a car, simply on a dash, or embedded. The ergonomic designs allow them to blend in.

GPS performance is identical in the CVX Series and CVT series models. GPS performance is 27 dB, with 5 dBi antenna gain. They have a low noise figure (1.7 dB typical) with excellent filter characteristics. Power for the GPS amplifier is +5 VDC, with optional 3.3 VDC capability.

The CVX Series is enclosed in a stylish case of 2"W x 3.25"L x 3/4"H. It uses double sided mounting tape, for securing to a surface. Center-fed radiators provide excellent 900 MHz performance (typically 1-2 dBi). It provides the best 900 MHz band performance of the two models.

Where the minimum in size is required, the CVT Series may be the better selection. It has a very small ABS case of 1.68" x 1.46" x .63". The antenna is supplied with double sided mounting tape, for securing flat to a horizontal surface. The antenna could also be mounted on a window, with the GPS facing out. The 900 MHz Band uses an internal element. The 900 MHz performance will not be as high compared to the CVX series.

Both models are outfitted with separate cabling for the cellular and GPS bands. Cabling is 15 ft RG-174, with SMB plug on GPS, and TNC male on Cellular/900 MHz Band. Other connectors are available, please consult factory for details and pricing. Overall antenna performance will vary based upon the installation. For optimum performance, the antennas should be mounted away from metal objects which might interfere.

Antenna Model Numbers

Model	Description
CVX-900/1575	Mini-Covert, Cellular/CDPD & GPS
CVX-837/1575	Mini-Covert, Low SMR & GPS
CVX-925/1575	Mini-Covert, High SMR/GSM & GPS
CVT-900/1575	Micro-Covert, Cellular/CDPD & GPS
CVT-837/1575	Micro-Covert, Low SMR & GPS
CVT-925/1575	Micro-Covert, High SMR/GSM & GPS

Specifications

Frequency:	
GPS	1575.42 +/- 2 MHz
Cellular/CDPD	824-894 MHz
Low SMR	804-870 MHz
High SMR/GSM	890-970 MHz
Cellular Gain:	
CVX	Unity Gain, 1-2 dBi typical
CVT	<Unity, 2-5 dB down typical
GPS Gain:	27 dB, 5 dBiC Antenna
VSWR:	3:1 max over range
Noise Figure:	2.0 dB max, 1.7 dB typical
Operating Temp:	-20° to +50° C
Storage Temp:	-70° to +70° C
Nominal Impedance:	50 ohms
Maximum Power:	4 Watts (800/900 MHz Band)
Amplifier Bias:	+5 VDC +/- 10% (GPS), 3.3 VDC models optional
Current Drain:	20 mA max
Cable:	Separate RG-174U, 15ft, each band
Case:	
CVX	2"W x 3.25"L x 3/4"H
CVT	1.68" W x 1.46" L x .63 "H
Case Material:	ABS
Mounting:	Double Sided tape provided
Connector :	SMB plug for GPS, TNC for 900 MHz band. Please consult factory for other configurations and connectors.

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