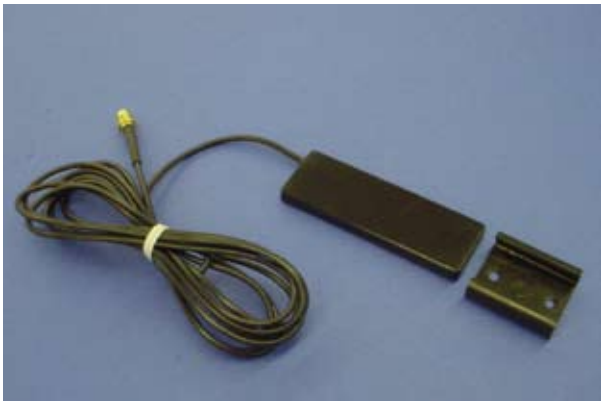
Covert Dual Band Antenna (Patented)

GSM/CDMA Bands and WiFi 2.4 GHz



CVS Series Dual Band
Strip Covert Antennas

- Halfwave 2.5 dBi gain styles
- Low profile & compact; perfect for Covert use or unobstructed view use.
- Weather resistant design for inside/outside applications
- Models for popular dual band operation; GSM, CDMA, GPRS, Nextel, ISM & WiFi

These antennas are designed for covert use in/on a vehicle, or for any type of embedded/surface application. Additional applications would be ATM machines, remote credit card processing, wireless kiosks, and telemetry radios, perhaps in NEMA boxes. These antennas operate on dual band configurations and can be used for cell phones or GSM/EV-DO/GPRS/1xRTT modem applications. Models are also available for Nextel modems and ISM 915 MHz modems. A single band model is available for 2.4 GHz WiFi (802.11 b/g)

These antennas are compact, yet provide 2.5 dBi gain performance. The antennas are ground plane independent and can be mounted in a variety of locations. They can be installed behind rearview mirrors, under a dashboard or rear window deck/shelf. Since they are thin, they can also fit into the molding of vehicles, surface or subsurface mount in various electronic equipment.

The CVS antennas are weather resistant. These antennas are provided with double sided tape and a mounting clip for standard installation applications. They can be installed without the mounting clip by simply using the double sided tape.

When mounting the antenna, care should be taken to ensure the antenna is positioned so that no metal or metallized finish obstructs the radiation pattern of the antenna.

The CVS series is housed within a black ABS rugged radome and is provided with 8 ft of RG-174 cable (2.5 meters). Models are typically outfitted with Male TNC or SMA connectors. Other connectors are available upon request. This model is also available with an integral GPS antenna in a slightly larger package.

Model Numbers

Model	Band(s)
CVS-900/1900	US GSM/GPRS/EV-DO
CVS-925/1800	EU GSM 900/1800 PCS
CVS-925/1900	ISM/Mobitex with US 1.9 GHz GPRS
CVS-837/1900	Nextel with US 1.9 GHz GPRS
CVS-900/1800	US 800 Cell with EU 1.8 GHz DCS
CVS-2400	2.4 GHz WiFi, 802.11 b/g

Specify desired connector at time of order (SMA or TNC). Special configurations available upon request. Please consult factory for details/availability.

Specifications

Frequency:	
US 850 GSM/CDMA	824-894 MHz
Nextel	806-870 MHz
US 1.9 GSM/CDMA	1850-1990 MHz
1.9 GPRS/1xRTT	1850-1990 MHz
EU 900 GSM (& ISM)	870-960 MHz
EU GSM @1800	1710-1880 MHz
WiFi/802.11 b/g	2400-2485 MHz
Gain:	2.5 dBi max
Bandwidth@2:1 VSWR:	See freq range above
Impedance:	50 Ohm nominal
Maximum Power:	10 Watts
Operating Temp:	-40° to +80° C
CVS Series Dimension:	3.75"L x 1 1/4"W x 3/8"D 95 mm x 32mm x 9 mm
Cable:	
CVS Series:	8 ft RG-174 (2.5 meters)
Connectors:	TNC or SMA, others available, consult factory
CVS Material:	ABS plastic, black
Mounting:	Slide-in clip, or direct double sided tape

Special configurations available, please consult factory for details.

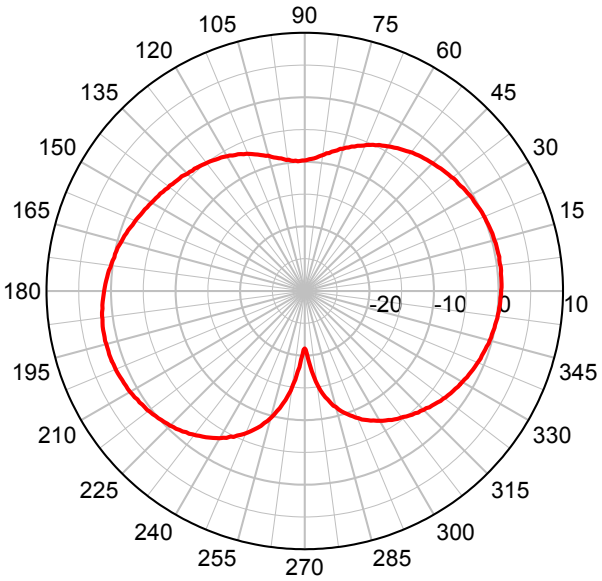
CVS-2400

Covert Strip Antenna
2 dBi, 2400-2500 MHz

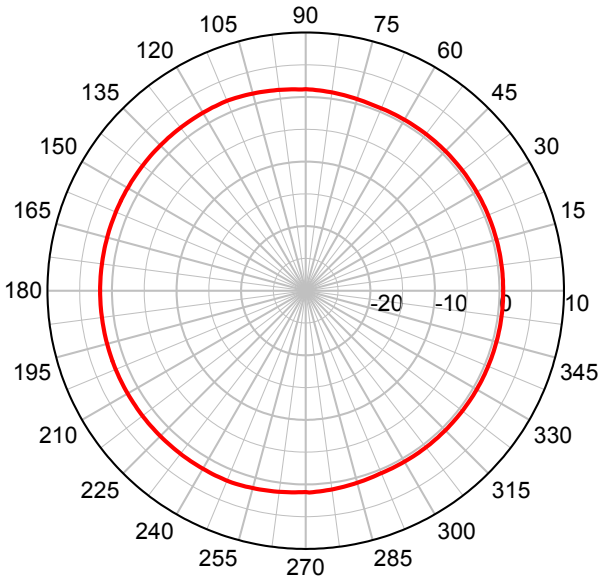
These plots can be used for the following models:

CVS-2400

CVS-2400– Elevation Plot



CVS-2400 – Azimuth Plot



Note: Azimuth Plot is at an elevation angle of 194° for the coordinate system shown above.

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