



License Plate Frame Antenna

Mobile Mark's patented CLP Series Covert License Plate Frame Antenna accommodates multiple antennas in one package. The antenna elements are placed inside the frame of the license plate and are not visible from the outside.

The CLP-UHF License Plate Frame Antenna can accommodate up to three different applications. The 3-cable model covers GPS (1575 MHz), US Cellular (850 & 1900 MHz) as well as UHF (420-500 MHz).

The UHF element is field tunable to cover 20 MHz. Gain figures for this antenna are Cellular: 2.5 dBi gain, UHF: 2.5 dBi gain, and GPS: 5 dBi nominal gain (26 dB Amplifier).

The License Plate Frame Antenna can also be configured with only one or two cables, for example to cover UHF & Cellular but not GPS, or to cover only the UHF band. Specify "00" in place of the cable/connector indication in the model number.

The CLP Series Covert License Plate Frame Antenna can be mounted on either the front or rear of a vehicle.

The antenna is designed for easy installation; each band has a separate cable feed and RF connector. The cable length provided is

Covert License Plate Frame UHF, Cellular & GPS

- Antenna elements hidden inside the frame of the license plate
- 3 cables; each band has a separate cable
- UHF element is field tunable
- Patented antenna design

typically 2 feet (61 cm). Jumper cables can be ordered to accommodate various installations.

Model Configurator			
CLP-UHF-1□ 2□ 2□ -BLK-24			
Connector 1			
Connector 2			
Connector 3			
Example: CLP-UHF-1C2C2C			
<u>Cable Options:</u>		<u>Connector Options:</u>	
<u>Code</u>	<u>Cable</u>	<u>Code</u>	<u>Connector</u>
1	RG-58	A	TNC
2	RG-174	B	Mini UHF
		C	SMA
		D	SMB
"00" to denote "No Cellular" and/or "No GPS"			
(Other Configurations available.)			

Specifications

Frequency:			
Cable 1	420-500 MHz		
	20 MHz field tuned bandwidth		
Cable 2	824-925 & 1850-1900 MHz		
Cable 3	1575.42 +/- 2 MHz		
Gain:			
Cellular & UHF	2.5 dBi (peak)		
GPS:			
Amplifier Gain	26dB, LNA		
Antenna Gain	5 dBi nominal RHCP		
Noise Figure	2.0 dB max, 1.7 dB typical		
Amplifier Bias	2.7 to 5 VDC		
Amplifier Current	20 mA max, 10 mA typical		
VSWR:	2:1 max over range		
Impedance:	50 Ohms Nominal		
Power:			
UHF		50 Watts Max	
Cellular		10 Watts Max	
Cables:			
Cellular & GPS		RG-174, 2 ft (610 mm)	
UHF		RG-58, 2 ft (610 mm)	
Case:			
Case Material:		12.4"D x 6.4"H (315mm x 162mm)	
Mounting:		UV resistant ASA, Color: Black Std. license plate frame mounting (4 grommet openings)	
Connectors:			
Operating Temp:		SMA/SMA standard -40 to +85° C	
Shock & Vibration:		IEEE 1478 EN 61373, MIL-810G TIA 329.2-C	
Water Ingress:			
IPx7			