BUMP-400900

Features

- Bumper Antenna for covert applications
- 400-900 MHz, 500 MHz bandwidth
- Flexible radiating element
- Easy to deploy
- Compatible with any vehicle model or manufacturer

Description

Comprod wideband Bumper Antenna BUMP-400900 is designed for covert operations which require effectively invisible antenna hidden inside the bumper of a vehicle. The bumper covers must be plastic.

Featuring a unique and compact design that integrates radiating elements on flexible substrate, this antenna can be easily deployed on uneven surfaces, allowing for the simplicity and versatility of installation. It is an ideal all-round antenna solution for fitting into narrow spaces in applications where completely discrete antenna is required.

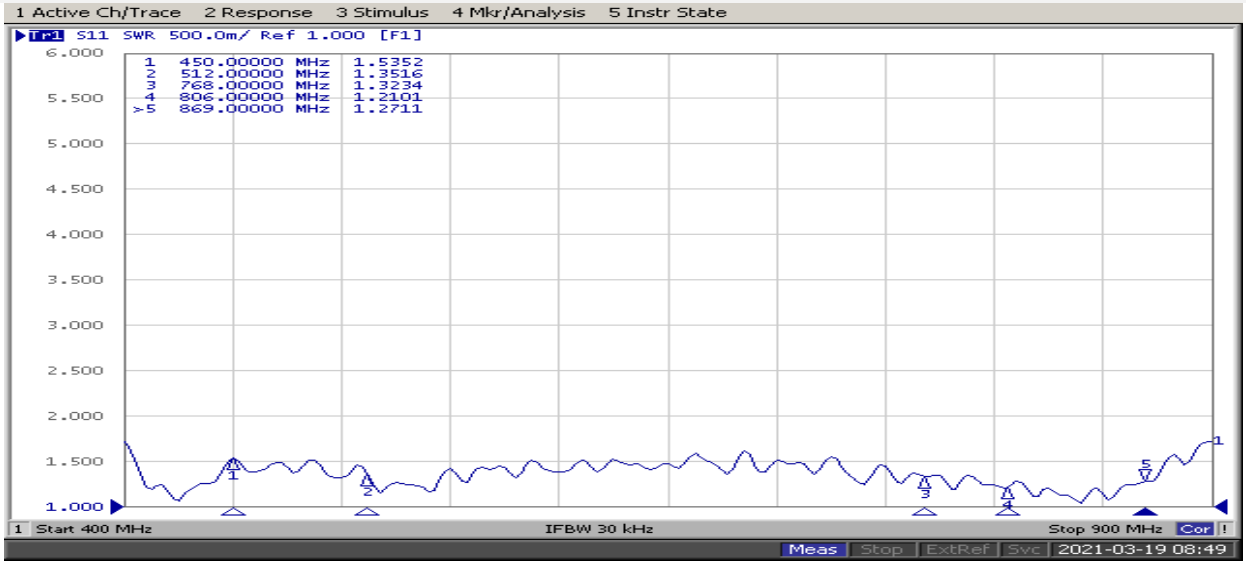
The antenna is provided with 17 feet RG-8X feed cable.

Note: The connector is provided but not installed for ease of cable running inside the vehicle. Other connector and cable configuration options are available.

For optimal performance two bumper antennas can be installed, one at the front of the vehicle and one at the rear. The Comprod power splitter (SPLT-400900) is designed for this purpose, helping to create an omni-directional pattern around the vehicle and enabling better network coverage.

400-900 MHz

Electrical Specifications	
Frequency Range, MHz	400-900
Bandwidth: 1.7:1 VSWR, MHz	500
Nominal Gain (dBd)	Unity
VSWR	1.7:1
Polarization	Vertical
Nominal Impedance, Ohms	50
Pattern	Omnidirectional (Free space)
Power Handling (max), Watts	150
Standard Termination	Mini-UHF (other connectors available)
Mechanical & Environmental Specifications	
Length, in (mm)	8.5 (215.9)
Width, in (mm)	4.5 (114.3)
Thickness, in (mm)	0.067 (1.71) (Including adhesive pad)
Operating Temp °F (°C)	-40 to +158 (-40 to +70)
Fixing Method	Adhesive Pad
Mounting Hardware	#8-32 screws (4) and connectors provided



VSWR Curve of BUMP-400900

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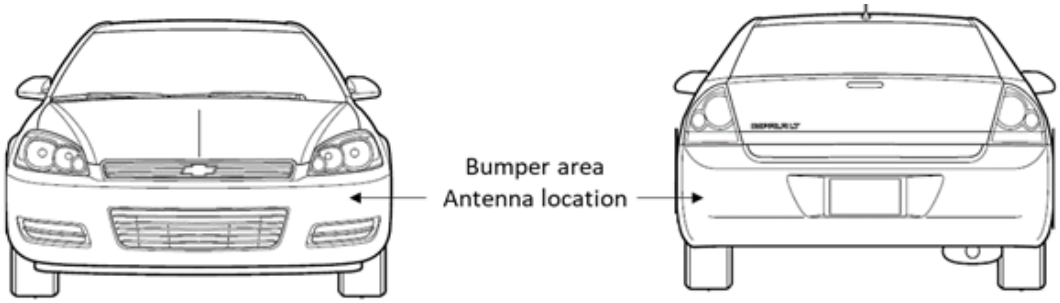
Universal installation guide

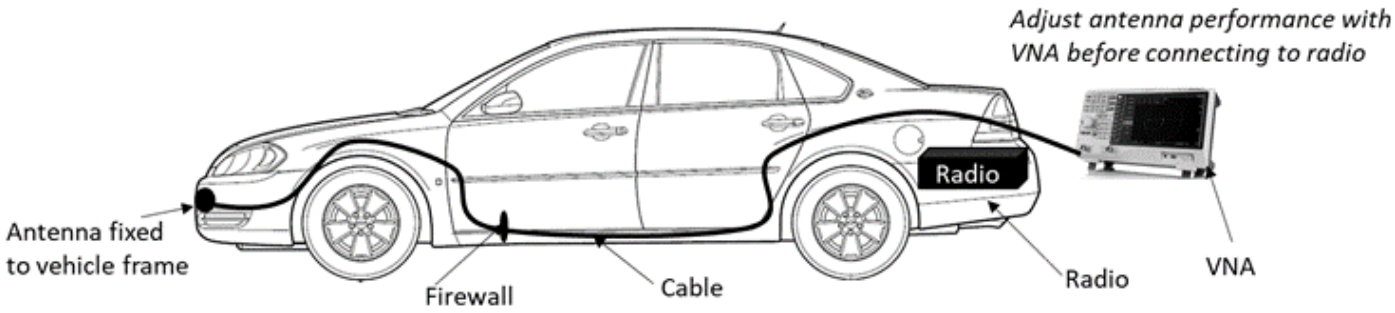
Step 1: Antenna installation on vehicle

1.1 An appropriate location for the antenna is the front or rear bumper area of the vehicle. Remove any obstructions in this area in order to access the vehicle frame located behind the bumper covers (shield, covers, etc.).



Step 2: Cable routing

2.1 Route the cable through the vehicle until where the radio is located. Make sure cables are away from any moving parts, then secure all cables with tie wraps.



2.2 After cable installation, use a VNA (Vector Network Analyzer) to ensure that the antenna is performing in customers frequency band (central frequency, operating bandwidth & VSWR). No tuning is required.