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SHA411 Series

Concealed Bumper Mount Antenna for Undercover Vehicles, 746-869 MHz

- Completely hidden-does not need any existing vehicle antennas
- Wide band with 60 to 80 MHz bandwidth depending on the vehicle
- Easy installation and tuning for optimum performance and durability in a wide variety of vehicles
- Applicable for both covert and overt law enforcement vehicles

Sinclair's patented concealed bumper mount antennas SHA411 series are designed for law-enforcement vehicles. The antennas are hidden inside the bumper and weatherproofed. The bumper covers must be plastic. Featuring a unique modular design that integrates all the components into a compact waterproof housing making it possible to install the antenna with minor modifications to the bumper. These antennas are mounted with simplicity and ease beneath the bumper cover thereby totally concealing the antenna from sight. A fine tuning adjustment permits performance optimization during installation.

The antenna is integrated with a 17feet RG58 feed cable. In addition to the N male connector attached to the RG58 cable, three separate connectors are supplied with the antenna including N male, UHF male and mini UHF male.

Attention: The antenna must be installed properly following the installation instruction. For some unique vehicles, please contact Sinclair sales representative or CSR for custom designs to achieve the optimum performance. Dual antennas (one in the front bumper and one in the rear) can be used for better Omni coverage.



Application Notes

- Bandwidth is dependent upon the type of vehicle and mounting position.

Model	Description	Pattern
SHA411-SF1SNM	Concealed Bumper Mount Antenna for Undercover Vehicles, 746-806 MHz	Omni- directional
SHA411-SF2SNM	Concealed Bumper Mount Antenna for Undercover Vehicles, 806-869 MHz	Omni- directional

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Product Specification Sheet		SHA411 Series		Dated: 05-02-10

[SHA411-SF1SNM](#)

[SHA411-SF2SNM](#)

Electrical Specifications

Frequency Range, MHz	746 to 806	806 to 869
Gain (nominal), dBd (dBi)	unity (2.1)	unity (2.1)
Input VSWR (max)	2:1	2:1
Polarization	vertical	vertical
Impedance, Ω	50	50
Pattern	Omni- directional	Omni- directional
Average Power Input (max), W	50	50
Bandwidth (Min-Max), MHz	60 to 80	63 to 80

Mechanical Specifications

Connector	N (male)	N (male)
Length/ Height, in (mm)	10.5 (267)	10.5 (267)
Width, in (mm)	3 (76)	3 (76)
Depth, in (mm)	2 (51)	2 (51)
Shipping dimensions, in (mm)	9x14x5 (229x356x127)	9x14x5 (229x356x127)
Mounting hardware	#8-32 screws (4)	#8-32 screws (4)

Environmental Specifications

Temperature range, °F (°C)	-40 to +140 (-40 to +60)	-40 to +140 (-40 to +60)
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