

Stealth Antenna Stealth Antennas SHA311 Series

## SHA311-SF2S(XX) Concealed bumper mount antenna, 20-40 MHz B.W., 430-470 MHz

- · Completely hidden-does not need any existing vehicle antennas
- Wide band with 20 to 40 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 SHA311 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.

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. The antenna must be installed and weatherproofed properly following the installation instruction. The phasing harness and the joints to the two SHA311 antennas are not weatherproofed, so they must be placed inside the vehicle.

The antenna is integrated with a 24 feet RG58 feed cable. See below chart for ordering information:

Model Name	Connector
SHA311-SF2SNM	N-male, loose
SHA311-SF2SUM	UHF-male, loose
SHA311-SF2SQM	QMA-male, loose

Note: the connector is provided loose for ease of cable running inside the vehicle and will need to be crimped on by the customer. Other connectors and cable configuration options are available. Contact your Sinclair Sales Representative or Customer Service Representative for details.

# **Application Notes**

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



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet EPR 018423		SHA311-SF2S(XX)	Issue: 4	Dated: 28-02-19 Dated: 28-02-19
Customer Tech Manual 006842		Sinclair's commitment to product leadership may result in improvement or change to this product		



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#### Notes

\*4 : included

- \*1 : Depending on vehcile
  \*2 : See previous page for detail.
  \*3 : Maximum
- 430 to 470 Frequency Range MHz Bandwidth (Min-Max) MHz 20 to 40 \*1 Various options avail. Connector \*2 Gain (nominal) dBd (dBi) unity (2.1) Input VSWR (max) 2:1 Polarization vertical Impedance Ω 50 Pattern Omni- directional W Average Input Power (max) 150

## Ordering Information

Clips are supplied to temporarily secure the radiator to the bumper. VA250 glue should be used for added support (may be ordered separately Sinclair part number 6500295).

#### Mechanical Specifications Width Depth

**Electrical Specifications** 

Depth	in (mm)	2 (51)	
Length/ Height	in (mm)	19.5 (495)	*3
Mounting hardware		#8-32 screws (4)	*4
Shipping dimensions	in (mm)	9x14x5 (229x356x127)	

3 (76)

-40 to +140 (-40 to +60)

in (mm)

°F (°C)

## **Environmental Specifications**

Tempera	ture r	ange
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