

SHA2112-SF1S(XX) Universal Concealed Vehicle Antenna, Dual, 138-150 MHz, 3-6 MHz bandwidth (typ)

- Completely hidden - does not need any existing vehicle antennas
- Field tunable from 138 to 150 MHz with 3-6 MHz bandwidth depending on the vehicle
- Easy installation and tuning for optimum performance and durability
- Dual antenna for enhanced omni coverage

Sinclair's patented concealed bumper mount antennas SHA211 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 SHA211 antennas are not weatherproofed, so they must be placed inside the vehicle.

SHA2112 dual antenna (one in the front and one in the rear, each integrated with 27 feet RG58 feed cable) can be used for better omni coverage. A phasing harness is supplied with two separate SHA211 antennas.

See below chart for ordering information:

Model Name	Connector
SHA2112-SF1SNM	N-male, loose
SHA2112-SF1SUM	UHF-male, loose
SHA2112-SF1SQM	QMA-male, pre-installed
SHA2112-SF1SMM	mini UHF-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 unless otherwise specified (see chart above). Other connectors and cable configuration options are available. Contact your Sinclair Sales Representative or Customer Service Representative for details.



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com

Electrical Specifications

Frequency Range	MHz	138 to 150	*1
Bandwidth (Min-Max)	MHz	3 to 6	*2
Connector		Various options avail.	*3
Gain (nominal)	dBd (dBi)	unity (2.1)	*4
Input VSWR (max)		2:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni- directional	
Average Input Power (max)	W	300	

Notes

- *1 : 150-174 MHz also available as SHA2112-SF2S(XX)
- *2 : Maximum bandwidth depends on the vehicle
- *3 : See previous page for details
- *4 : Estimated.
- *5 : Maximum

Mechanical Specifications

Width	in (mm)	3 (76)	
Depth	in (mm)	2 (51)	
Length/ Height	in (mm)	22 (559)	*5
Mounting Hardware (Universal mount)		#8-32 screws (4)	
Shipping dimensions	in (mm)	9x14x5 (229x356x127)	

Environmental Specifications

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

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com