

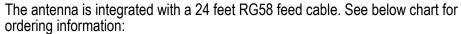


SHA311-SF3S(XX) Concealed bumper mount antenna, 20-42 MHz B.W., 470-512 MHz

- · Completely hidden-does not need any existing vehicle antennas
- · Wide band with 20 to 42 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.



Model Name Connector SHA311-SF3SNM N-male, loose SHA311-SF3SUM UHF-male, loose SHA311-SF3SQM 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 | | SHA311-SF3S(XX) | Issue: 4 | Dated: 28-02-19 |

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Stealth Antenna Stealth Antennas SHA311 Series

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| Electrical Specifications | | | |
|---------------------------------|-----------|--------------------------|----|
| Frequency Range | MHz | 470 to 512 | |
| Bandwidth (Min-Max) | MHz | 20 to 42 | *1 |
| Connector | | Various options avail. | *2 |
| Gain (nominal) | dBd (dBi) | unity (2.1) | |
| Input VSWR (max) | | 2:1 | |
| Polarization | | vertical | |
| Impedance | Ω | 50 | |
| Pattern | | Omni- directional | |
| Average Input Power (max) | W | 150 | |
| Mechanical Specifications Width | in (mm) | 3 (76) | |
| 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) | |
| For the control of the state of | | | |
| Environmental Specifications | | | |
| Temperature range | °F (°C) | -40 to +140 (-40 to +60) | |

Notes

- *1 : Depending on vehcile
- *2 : See previous page for detail.
- *3 : Maximum
- *4 : included

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).

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