

SC394D-HF2LDF(DXX-I35-YYY) Collinear omni, dual port, 4 dBd gain, low PIM, PIP rated, HD, 403-470 MHz

- Wideband 4 dBd gain, dual port with 35 dB minimum isolation
- 500W power handling with low PIM and high PIP ratings
- Rugged fiberglass radome provides superior environmental protection
- A side mount kit is mandatory when offset mounting the antenna

The SC394D-H is a 4 dBd collinear omni featuring low passive intermod performance with dual ports. Fabricated using durable components, this series of antennas is designed for ease of installation. Due to its wide band and high average power and PIP power handling capability, this antenna is ideally suited for UHF trunking applications or multi-channel operations. The reliability and durability of this antenna make it well-suited for mission-critical applications such as public safety and law enforcement. This family is fabricated to meet the most stringent wind and ice loading requirements.

When ordering, please refer to the chart below for the model number. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

| Model number               | Downtilt | PIP   | Mounting            |
|----------------------------|----------|-------|---------------------|
| SC394D-HF2LDF(D00-I35-PIP) | 0°       | 25 kW | Upright or Inverted |
| SC394D-HF2LDF(D02-I35-PIP) | 2°       | 25 kW | Upright             |
| SC394D-HF2LDF(D04-I35-PIP) | 4°       | 25 kW | Upright             |
| SC394D-HF2LDF(D06-I35-PIP) | 6°       | 25 kW | Upright             |
| SC394D-HF2LDF(D00-I35)     | 0°       | -     | Upright or Inverted |
| SC394D-HF2LDF(D02-I35)     | 2°       | -     | Upright             |
| SC394D-HF2LDF(D04-I35)     | 4°       | -     | Upright             |
| SC394D-HF2LDF(D06-I35)     | 6°       | -     | Upright             |



Antenna may not appear exactly as shown

| Region                      | United States         | Europe, Middle East, and Africa | Canada, Caribbean, and Latin America                     | Asia-Pacific            |
|-----------------------------|-----------------------|---------------------------------|--|-------------------------|
| Telephone                   | 1 800 263 3275        | +1 905 727 0165 ext 232         | Canada: 1 905 726 7676<br>International: +1 905 726 7676 | +1 905 727 0165 ext 287 |
| E-mail                      | salesusa@sinctech.com | salesemea@sinctech.com          | salescan@sinctech.com                                    | salesasia@sinctech.com  |
| Product Specification Sheet |                       | SC394D-HF2LDF(DXX-I35-YYY)      | Issue: 1   | Dated: 22-03-24         |

#### Electrical Specifications

|                                     |           |                             |
|-------------------------------------|-----------|-----------------------------|
| Frequency Range                     | MHz       | 403 to 470                  |
| Bandwidth                           | MHz       | 67                          |
| Connector                           |           | 7/16 DIN-Female             |
| Gain (nominal)                      | dBd (dBi) | 4 (6.1)                     |
| Input VSWR (max)                    |           | 1.5:1                       |
| Polarization                        |           | vertical                    |
| Impedance                           | $\Omega$  | 50                          |
| Pattern                             |           | Omni-directional            |
| Vertical beamwidth (typ)            | degrees   | 20                          |
| Average Input Power (max)           | W         | 500                         |
| Number of ports                     |           | 2                           |
| Isolation port to port (min)        | dB        | 35                          |
| Passive intermod. (2x20W, 3rd ord.) | dBc       | -150                        |
| Grounding                           |           | All metal parts DC-grounded |

#### Notes

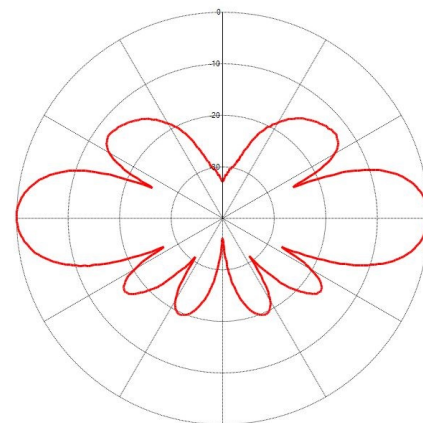
- \*1 :  $\pm 10\%$   
\*2 : Qty 2  
\*3 : Optional, not included.

#### Mechanical Specifications

|  |          |                            |
|--|----------|----------------------------|
| Width  | in (mm)  | 5 (127)                    |
| Depth  | in (mm)  | 5 (127)                    |
| Length/ Height                                 | in (mm)  | 179 (4547)                 |
| Base pipe diameter                             | in (mm)  | 5 (127)                    |
| Radome material                                |          | fiberglass (UV protected)  |
| Weight   | lbs (kg) | 65 (29.51)                 |
| Weight iced (1/2" ice)                         | lbs (kg) | 111 (50.39)                |
| Mounting Hardware (Optional)                   |          | Clamp006C                  |
| Kit for Offset Side Mount (straight tower leg) |          | SMK-345-A7                 |
| Actual shipping weight                         | lbs (kg) | 98 (44.49)                 |
| Shipping dimensions                            | in (mm)  | 190x6.5x6.5 (4826x165x165) |
| Radome Colour                                  |          | Light Blue                 |

#### Environmental Specifications

|   |   |                          |
|---|---|--------------------------|
| Temperature range                         | $^{\circ}\text{F}$ ( $^{\circ}\text{C}$ ) | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | $\text{ft}^2$ ( $\text{m}^2$ )            | 4 (0.37)                 |
| Wind Loading Area (1/2" ice)              | $\text{ft}^2$ ( $\text{m}^2$ )            | 4.9 (0.46)               |
| Rated wind velocity (no ice)              | mph (km/h)                                | 235 (378)                |
| Rated wind velocity (1/2" radial ice)     | mph (km/h)                                | 205 (330)                |
| Lateral Thrust (100 mph No Ice)           | lbs (N)                                   | 156 (693.9)              |
| Bending moment (100 mph No Ice)           | ft-lbs (Nm)                               | 926 (1250.1)             |
| Tip deflection (100 mph No Ice)           | degrees                                   | 0.7                      |



Vertical - 0° Downtilt

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