

## SE4192-SWBP4L(YY)(DXX-NUF)

Enclosed dipole, offset, 12 dBd, low PIM, null fill, 746-960 MHz

Also referred as: SE4192-SWBP4L(YY)(DXX-E6461)

- New wide band design covers 746-960 MHz band
- Optimized Null fill for close-in coverage enhancement
- PIP rated and low PIM

One wideband antenna for your 700, 800, 900 MHz systems. Sinclair's SE4192-WBL series of enclosed dipole arrays offer excellent intermodulation performance covering 746-960 MHz in a single antenna. These highly versatile antennas are particularly well suited to communication systems where a specific coverage pattern is required. These include cellular systems, trunked radio, paging, and data transmission, where predictable and highly reliable performance is a must. Designed for multi-channel systems, the PIP rated SE4192-WBL series features low intermodulation products, highly rated average power and peak instantaneous power (PIP).

The SE4192-WBL series is also available with field adjustable reflectors that provide horizontal beamwidths between 60 and 160 degrees (See SE4192-WBAL). The creative design and construction permits excellent pattern control and greater efficiency.

This antenna should be mounted in an upright position.

When ordering, please refer to the chart below for the model number. Different configurations are subject to various list prices. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

| Model Number             | Connector   | Downtilt | PIM(dBc) | PIP(kW, max) |
|--------------------------|-------------|----------|----------|--------------|
| SE4192-SWBP4LDF(D00-NuF) | 7/16 DIN(F) | 0°       | <-150    | 25           |
| SE4192-SWBP4LDF(D01-NuF) | 7/16 DIN(F) | 1°       | <-150    | 25           |
| SE4192-SWBP4LDF(D02-NuF) | 7/16 DIN(F) | 2°       | <-150    | 25           |
| SE4192-SWBP4LDF(D03-NuF) | 7/16 DIN(F) | 3°       | <-150    | 25           |
| SE4192-SWBP4LDF(D04-NuF) | 7/16 DIN(F) | 4°       | <-150    | 25           |
| SE4192-SWBP4LDF(D05-NuF) | 7/16 DIN(F) | 5°       | <-150    | 25           |
| SE4192-SWBP4LDF(D06-NuF) | 7/16 DIN(F) | 6°       | <-150    | 25           |
| SE4192-SWBP4LNF(D00-NuF) | N(F)        | 0°       | <-139    | N/A          |
| SE4192-SWBP4LNF(D01-NuF) | N(F)        | 1°       | <-139    | N/A          |
| SE4192-SWBP4LNF(D02-NuF) | N(F)        | 2°       | <-139    | N/A          |
| SE4192-SWBP4LNF(D03-NuF) | N(F)        | 3°       | <-139    | N/A          |
| SE4192-SWBP4LNF(D04-NuF) | N(F)        | 4°       | <-139    | N/A          |
| SE4192-SWBP4LNF(D05-NuF) | N(F)        | 5°       | <-139    | N/A          |
| SE4192-SWBP4LNF(D06-NuF) | N(F)        | 6°       | <-139    | N/A          |



Antenna may not appear exactly as shown in image

| 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  |

#### Electrical Specifications

|                            |                             |            |
|----------------------------|-----------------------------|------------|
| Frequency Range            | MHz                         | 746 to 960 |
| Bandwidth                  | MHz                         | 214        |
| Gain (nominal)             | dBd (dBi)                   | 12 (14.1)  |
| Input VSWR (max)           |                             | 1.5:1      |
| Polarization               |                             | vertical   |
| Impedance                  | Ω                           | 50         |
| Pattern                    |                             | Offset     |
| Horizontal beamwidth (typ) | degrees                     | 180        |
| Vertical beamwidth (typ)   | degrees                     | 4          |
| Average Input Power (max)  | W                           | 500        |
| Null fill                  | %                           | 25         |
| Front-to-back ratio (typ)  | dB                          | 15         |
| Grounding                  | All metal parts DC-grounded |            |

#### Mechanical Specifications

|                              |          |                          |    |
|------------------------------|----------|--------------------------|----|
| Width                        | in (mm)  | 2.9 (74)                 | *1 |
| Depth                        | in (mm)  | 8.5 (216)                | *2 |
| Length/ Height               | in (mm)  | 216 (5486)               |    |
| Base pipe diameter           | in (mm)  | 2.88 (73)                |    |
| Base pipe mounting length    | in (mm)  | 176.5 (4483)             |    |
| Radiating element material   |          | prntd circuit bd         |    |
| Weight                       | lbs (kg) | 56 (25.42)               |    |
| Weight iced (1/2" ice)       | lbs (kg) | 135 (61.29)              |    |
| Mounting Hardware (Included) |          | Clamp130                 |    |
| Mounting configurations      |          | upright                  |    |
| Shipping dimensions          | in (mm)  | 219x13x15 (5563x330x381) |    |

#### Environmental Specifications

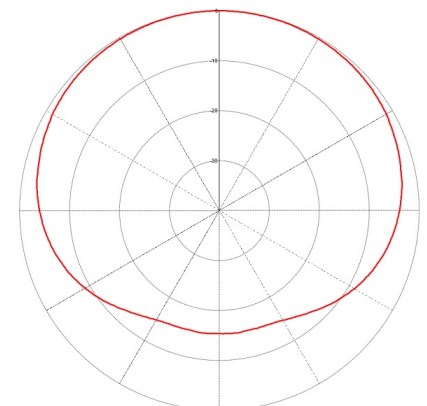
|   |             |                          |
|---|-------------|--------------------------|
| Temperature range                         | °F (°C)     | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²)    | 8.37 (0.78)              |
| Wind Loading Area (1/2" ice)              | ft² (m²)    | 10.59 (0.98)             |
| Rated wind velocity (no ice)              | mph (km/h)  | 100 (161)                |
| Rated wind velocity (1/2" radial ice)     | mph (km/h)  | 85 (137)                 |
| Lateral Thrust (100 mph No Ice)           | lbs (N)     | 438 (1948.2)             |
| Torsional moment (100 mph No Ice)         | ft-lbs (Nm) | 188 (253.8)              |

#### Notes

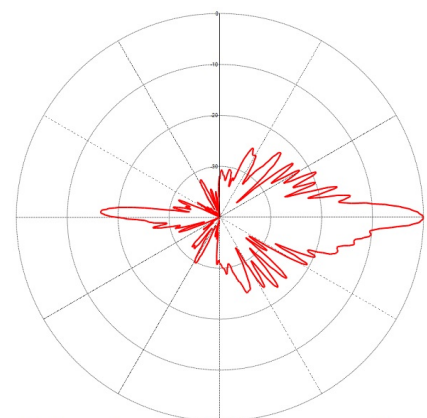
- \*1 : Clamps not included in measurement  
\*2 : Clamps not included in measurement

#### Ordering Information

When ordering, please refer to the model list on the previous page for specific model numbers and downtilt configurations.



Horizontal



Vertical - 0° downtilt

| 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  |