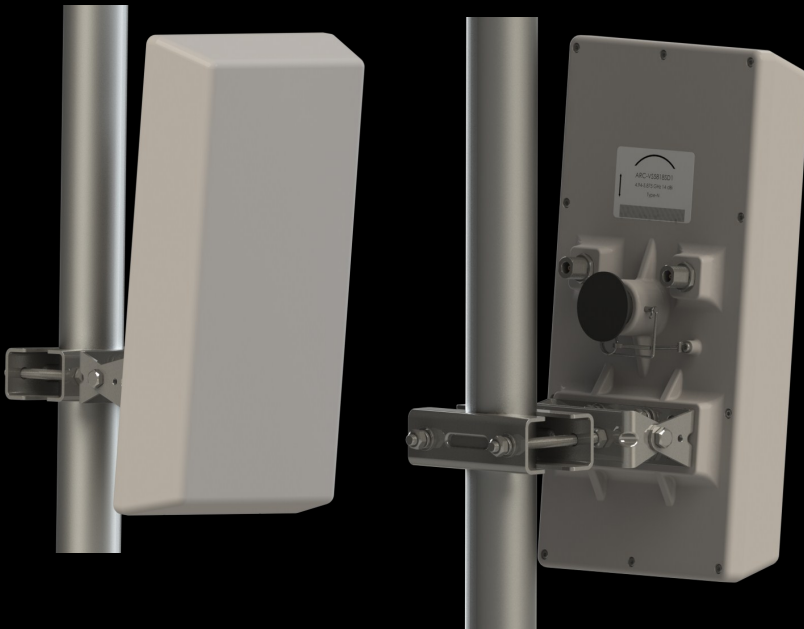


# ARC-VS5818SD1

## ARCFlex™ Dual Polarization Variable Beamwidth Sector Antenna



- Wide range of beamwidths, 1 SKU
- Mechanical slide for easy field adjustments
- Ultra wideband frequency performance
- High gain antenna in compact package
- Low profile, rugged design for outdoor use
- US Engineered
- Manufactured under strict US quality control procedures

### Electrical Specifications

|                                   |                                       |     |      |
|-----------------------------------|---------------------------------------|-----|------|
| <b>Frequency Range</b>            | 4.94-5.875 GHz                        |     |      |
| <b>Polarization</b>               | Dual Linear – Vertical and Horizontal |     |      |
| <b>Horizontal (AZ) Beamwidth*</b> | 60°                                   | 90° | 120° |
| <b>Gain (dBi)</b>                 | 18                                    | 17  | 16   |
| <b>Vertical (EL) Beamwidth</b>    | 8.0 deg                               |     |      |
| <b>VSWR<br/>4.94-5.875 GHz</b>    | 1.5:1 Typ                             |     |      |

|                               |           |
|-------------------------------|-----------|
| <b>Front-to-Back Ratio</b>    | >25 dBi   |
| <b>Cross Polarization</b>     | >25 dBi   |
| <b>Sidelobe Level</b>         | >12 dBi   |
| <b>Port to Port Isolation</b> | >25 dBi   |
| <b>Power Rating</b>           | 20 watts  |
| <b>Impedance</b>              | 50 ohms   |
| <b>Lightning Protection</b>   | DC ground |

### Physical/Environmental Specifications

|                               |  |
|-------------------------------|--|
| <b>Length x Width x Depth</b> | 15 x 6.4 x 2.5in<br>(Excluding Bracket and Adjustment Slide) |
| <b>Weight</b>                 | 5 lbs (2.3kg)  |
| <b>Radome</b>                 | UV Stabilized ABS plastic, gray                              |
| <b>Wind Survivability</b>     | 125mph (201kph)  |
| <b>Wind Load</b>              | 0.67ft <sup>2</sup>  |
| <b>Operating Temperature</b>  | -49°F to 149°F (-45°C to 65°C)                               |

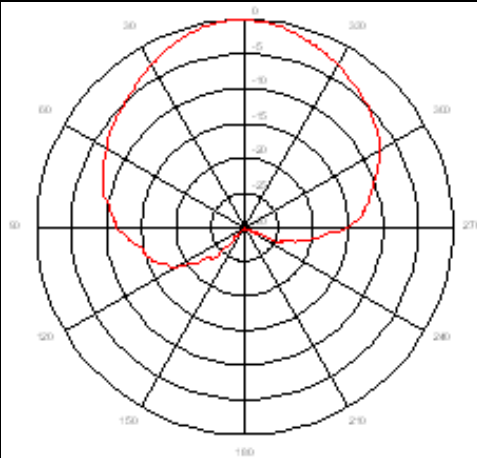
|                                  |                              |
|----------------------------------|------------------------------|
| <b>Pole Mount Diameter Range</b> | 2.0 to 2.75in (5.0 to 7.0cm) |
| <b>Environmental</b>             | IP 65                        |
| <b>Connector</b>                 | Type-N Jack (2)              |
| <b>Mechanical Downtilt</b>       | +15 deg/ -30 deg             |

\* All beam widths are listed at the 3dB point except for 120° beam on horizontal polarization is listed at 6dB point

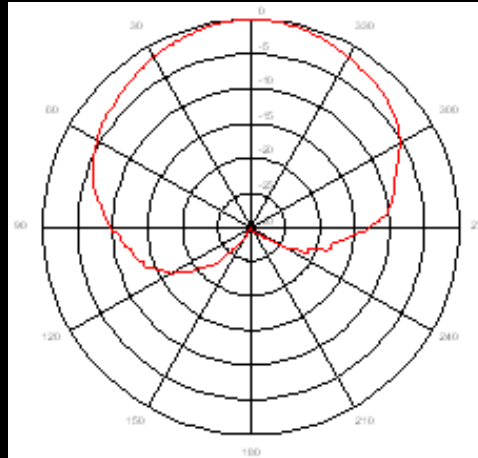
### Antenna Patterns

RF Patterns Horizontal Cut, typ.

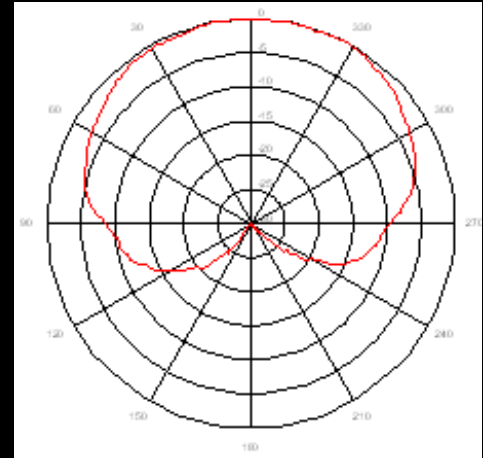
60°



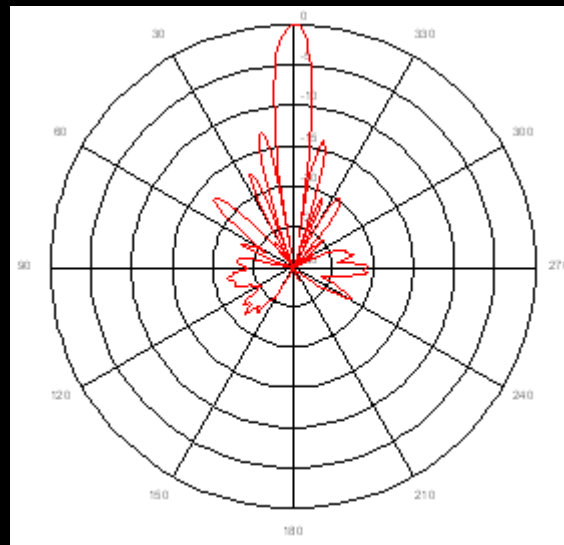
90°



120°



RF Patterns Vertical Cut, typ.



### Shipping Information

|             |                                   |
|-------------|-----------------------------------|
| Size        | 39 x 18 x 11 in (99 x 45 x 27 cm) |
| Weight      | 30.7 lbs (13.9 kg)                |
| Description | 5-Pack                            |

### Ordering Information

|             |   |
|-------------|---|
| Part Number | ARC-VS5818SD1   |
| Description | Sector, 4.94-5.875 GHz, 60-120deg, 18-16dBi, Variable Sector Antenna, Type-N Jack (2), Dual Pol |