

# CVVPX303F1



6-port sector antenna, 2x 790–960 and 4x 1710–2690 MHz, 65° HPBW, fixed electrical tilt

## OBSOLETE

This product was discontinued on: November 30, 2023

### Replaced By:

**RVVPX303.6F12R2** 6-port sector antenna, 2x 694–960 and 4x 1710–2690 MHz, 65° HPBW, fixed electrical tilt (12°) low band, 2x RET on both high band arrays with a separate pair of AISG Input and Output ports per array.

## General Specifications

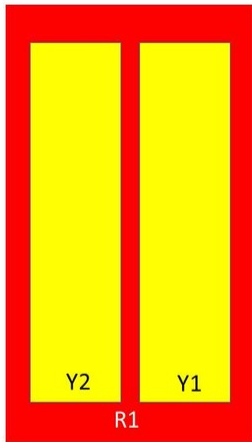
|   |  |
|---|--|
| <b>Antenna Type</b>                     | Sector   |
| <b>Band</b>                             | Multiband  |
| <b>Grounding Type</b>                   | RF connector inner conductor and body grounded to reflector and mounting bracket |
| <b>Performance Note</b>                 | Outdoor usage  |
| <b>Radome Material</b>                  | ASA, UV stabilized   |
| <b>Reflector Material</b>               | Aluminum   |
| <b>RF Connector Interface</b>           | 7-16 DIN Female  |
| <b>RF Connector Location</b>            | Bottom   |
| <b>RF Connector Quantity, high band</b> | 4  |
| <b>RF Connector Quantity, mid band</b>  | 0  |
| <b>RF Connector Quantity, low band</b>  | 2  |
| <b>RF Connector Quantity, total</b>     | 6  |

## Dimensions

|   |                    |
|---|--------------------|
| <b>Width</b>                            | 353 mm   13.898 in |
| <b>Depth</b>                            | 209 mm   8.228 in  |
| <b>Length</b>                           | 861 mm   33.898 in |
| <b>Net Weight, without mounting kit</b> | 11 kg   24.251 lb  |

## Array Layout

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| Array | Freq (MHz) | Conns |
|-------|------------|-------|
| R1    | 790-960    | 1-2   |
| Y1    | 1710-2690  | 3-4   |
| Y2    | 1710-2690  | 5-6   |

Left  
Right  
Bottom

(Sizes of colored boxes are not true depictions of array sizes)

## Port Configuration



## Electrical Specifications

|                                 |                                 |
|---------------------------------|---------------------------------|
| <b>Impedance</b>                | 50 ohm                          |
| <b>Operating Frequency Band</b> | 1710 – 2690 MHz   790 – 960 MHz |
| <b>Polarization</b>             | ±45°                            |

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## Electrical Specifications

| Frequency Band, MHz                          | 790–890     | 890–960     | 1710–1920  | 1920–2180  | 2300–2690  |
|--|-------------|-------------|------------|------------|------------|
| Gain, dBi                                    | 10.9        | 11.5        | 13.2       | 13.9       | 14.2       |
| Beamwidth, Horizontal, degrees               | 66.8        | 60.7        | 60         | 59.4       | 63         |
| Beamwidth, Vertical, degrees                 | 29.9        | 24.4        | 25.2       | 23.1       | 18.7       |
| Beam Tilt, degrees                           | 0           | 0           | 0          | 0          | 0          |
| USLS (First Lobe), dB                        | 17          | 21          | 27         | 20         | 19         |
| Front-to-Back Ratio at 180°, dB              | 31          | 27          | 36         | 41         | 32         |
| Isolation, Cross Polarization, dB            | 20          | 20          | 25         | 25         | 25         |
| Isolation, Inter-band, dB                    | 30          | 30          | 30         | 30         | 30         |
| VSWR   Return loss, dB                       | 1.43   15.0 | 1.43   15.0 | 1.5   14.0 | 1.5   14.0 | 1.5   14.0 |
| PIM, 3rd Order, 2 x 20 W, dBc                | -150        | -150        | -150       | -150       | -150       |
| Input Power per Port, maximum, watts         | 300         | 300         | 250        |            | 250        |
| Input Power per Port at 50°C, maximum, watts |             |             |            | 200        |            |

## Mechanical Specifications

|                                  |  |
|----------------------------------|--|
| Wind Loading @ Velocity, frontal | 359.0 N @ 150 km/h (80.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, lateral | 132.0 N @ 150 km/h (29.7 lbf @ 150 km/h) |
| Wind Loading @ Velocity, rear    | 368.0 N @ 150 km/h (82.7 lbf @ 150 km/h) |
| Wind Speed, maximum              | 250 km/h (155 mph)                       |

## Packaging and Weights

|                |                     |
|----------------|---------------------|
| Width, packed  | 420 mm   16.535 in  |
| Depth, packed  | 320 mm   12.598 in  |
| Length, packed | 1285 mm   50.591 in |
| Weight, gross  | 23 kg   50.706 lb   |

## Regulatory Compliance/Certifications

| Agency     | Classification                                    |
|------------|---|
| CE         | Compliant with the relevant CE product directives |
| CHINA-ROHS | Below maximum concentration value                 |

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|               |  |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



## Included Products

|            |   |   |
|------------|---|---|
| T-108-GL-E | - | Adjustable Tilt Pipe Mounting Kit for 2.0"-4.5" (60-115mm) OD round members for panel antennas. |
|------------|---|---|

## \* Footnotes

|                         |   |
|-------------------------|---|
| <b>Performance Note</b> | Severe environmental conditions may degrade optimum performance |
|-------------------------|---|