

# CMAX-DMF-WI53



Low PIM Directional MIMO In-Building Antenna, 698–960 MHz, 1695–2700 MHz and 3300–4000 MHz

## OBSOLETE

This product was discontinued on: July 29, 2022

### Replaced By:

CMAX-DMF-43-WI53 Low PIM Directional MIMO In-Building Antenna, 698–960 MHz, 1695–2700 MHz and 3300–4200MHz

## Product Classification

**Product Type** In-building antenna

## General Specifications

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Application</b>                  | Indoor                   |
| <b>Antenna Type</b>                 | Directional              |
| <b>Antenna Array Characteristic</b> | MIMO 2x2                 |
| <b>Polarization</b>                 | ±45°                     |
| <b>Color</b>                        | White                    |
| <b>Number of Ports</b>              | 2                        |
| <b>Pigtail Cable</b>                | 670-141SXE, plenum rated |
| <b>Radome Material</b>              | ASA+PC, UV stabilized    |
| <b>RF Connector Interface</b>       | N Female                 |

## Dimensions

|                       |                    |
|-----------------------|--------------------|
| <b>Width</b>          | 199 mm   7.835 in  |
| <b>Depth</b>          | 80 mm   3.15 in    |
| <b>Length</b>         | 303 mm   11.929 in |
| <b>Pigtail Length</b> | 450 mm   17.717 in |

## Electrical Specifications

**Impedance** 50 ohm

# CMAX-DMF-WI53

**Operating Frequency Band** 1695 – 2700 MHz | 3300 – 4000 MHz | 698 – 960 MHz

**Electrical Note** Values typical, unless otherwise stated

## Electrical Specifications

| Frequency Band, MHz                                | 698–800  | 800–960  | 1695–2200 | 2200–2700 | 3300–4000 |
|--|----------|----------|-----------|-----------|-----------|
| Gain, dBi  | 7.1      | 7.6      | 8.4       | 9         | 8         |
| Beamwidth, Horizontal, degrees                     | 77       | 77       | 70        | 60        | 54        |
| Beamwidth, Vertical, degrees                       | 71       | 68       | 62        | 56        | 64        |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 15       | 20       | 15        | 17        | 17        |
| Isolation, Cross Polarization, dB                  | 18       | 20       | 25        | 25        | 25        |
| VSWR   Return loss, dB                             | 1.7 11.7 | 1.7 11.7 | 1.7 11.7  | 1.7 11.7  | 1.7 11.7  |
| PIM, 3rd Order, 2 x 20 W, dBc                      | -153     | -153     | -153      | -153      | -153      |
| Input Power per Port, maximum, watts               | 100      | 100      | 100       | 100       | 100       |

## Environmental Specifications

**Operating Temperature** -40 °C to +60 °C (-40 °F to +140 °F)

**Relative Humidity** Up to 100%

## Packaging and Weights

|                       |                    |
|-----------------------|--------------------|
| <b>Width, packed</b>  | 205 mm   8.071 in  |
| <b>Depth, packed</b>  | 100 mm   3.937 in  |
| <b>Length, packed</b> | 345 mm   13.583 in |
| <b>Included</b>       | Mounting bracket   |
| <b>Weight, gross</b>  | 1.4 kg   3.086 lb  |
| <b>Weight, net</b>    | 1.1 kg   2.425 lb  |

## Regulatory Compliance/Certifications

| Agency     | Classification                    |
|------------|-----------------------------------|
| CHINA-ROHS | Below maximum concentration value |
| ROHS       | Compliant                         |
| UK-ROHS    | Compliant                         |

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