

CMAX-DMF-43-UW-153-01



Low PIM Directional MIMO In-Building Antenna, 4G/5G/C-Band, 617–960 MHz, 1695–2700 MHz, 3300–4200MHz and 4800–6000MHz
4.3-10

Product Classification

Product Type In-building antenna

General Specifications

Application Indoor
Antenna Type Directional
Antenna Array Characteristic MIMO 2x2
Polarization ±45°
Color White (RAL 9016)
Number of Ports 2
Pigtail Cable 670-141SXE, plenum rated
Radome Material ASA+PC, UV stabilized
RF Connector Interface 4.3-10 Female

Dimensions

Height 119 mm | 4.685 in
Width 310 mm | 12.205 in
Length 450 mm | 17.717 in
Pigtail Length 450 mm | 17.717 in

Electrical Specifications

Impedance 50 ohm
Operating Frequency Band 1695 – 2700 MHz | 3300 – 4200 MHz | 4800 – 6000 MHz | 617 – 698 MHz | 698 – 960 MHz
Electrical Note Values typical, unless otherwise stated

Electrical Specifications

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| Frequency Band, MHz | 617-698 | 698-960 | 1695-2200 | 2200-2700 | 3300-4200 | 4800-6000 |
|--|---------|---------|-----------|-----------|-----------|-----------|
| Gain, dBi | 7.2 | 7.5 | 6.3 | 6.9 | 7.1 | 7.7 |
| Beamwidth, Horizontal, degrees | 73 | 71 | 79 | 66 | 69 | 54 |
| Beamwidth, Vertical, degrees | 75 | 66 | 74 | 72 | 67 | 51 |
| Front-to-Back Ratio, Copolarization 180° ± 30°, dB | 13 | 17 | 13 | 17 | 14 | 12 |
| Isolation, Cross Polarization, dB | 20 | 20 | 20 | 20 | 20 | 20 |
| PIM, 3rd Order, 2 x 20 W, dBc | -153 | -153 | -153 | -153 | -153 | -153 |
| Input Power per Port, maximum, watts | 100 | 100 | 100 | 100 | 100 | 100 |

VSWR/Return Loss

| Frequency Band | VSWR, Maximum | Return Loss, Maximum (dB) | VSWR, Mean | Return Loss, Mean (dB) |
|----------------|---------------|---------------------------|------------|------------------------|
| 617-698 MHz | 1.798 | 10.9 | 1.499 | 14 |
| 698-960 MHz | 1.798 | 10.9 | 1.499 | 14 |
| 1695-2700 MHz | 1.798 | 10.9 | 1.499 | 14 |
| 3300-4200 MHz | 1.798 | 10.9 | 1.499 | 14 |
| 4800-6000 MHz | 1.703 | 11.7 | 1.499 | 14 |

Environmental Specifications

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

Relative Humidity Up to 100%

Packaging and Weights

| | |
|-----------------------|--------------------|
| Height, packed | 195 mm 7.677 in |
| Width, packed | 310 mm 12.205 in |
| Length, packed | 675 mm 26.575 in |
| Included | Mounting bracket |
| Weight, gross | 5.5 kg 12.125 lb |
| Weight, net | 4.5 kg 9.921 lb |