

# CMAX-DMF2-43-WI53



Low PIM Directional MIMO Antenna 4G/5G/C-Band, 698–960 MHz, 1695–2700 MHz and 3300–4200MHz

## Product Classification

**Product Type** Indoor/outdoor antenna

## General Specifications

**Application** Indoor/Outdoor  
**Antenna Type** Directional  
**Antenna Array Characteristic** MIMO 2x2  
**Polarization**  $\pm 45^\circ$   
**Color** Light Gray (RAL 7035)  
**Number of Ports** 2  
**Radome Material** PVC, UV resistant  
**RF Connector Interface** 4.3-10 Female

## Dimensions

**Width** 287 mm | 11.299 in  
**Depth** 132 mm | 5.197 in  
**Length** 380 mm | 14.961 in

## Electrical Specifications

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

## Electrical Specifications

Frequency Band, MHz	698–960	1695–2200	2200–2700	3300–4200
Gain, dBi	7.9	8.8	8.9	8.5
Beamwidth, Horizontal, degrees	77	67	57	54

# CMAX-DMF2-43-WI53

<b>Beamwidth, Vertical, degrees</b>	60	53	59	54
<b>Front-to-Back Ratio, Copolarization 180° ± 30°, dB</b>	12	17	20	16
<b>Isolation, Cross Polarization, dB</b>	20	25	25	25
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153
<b>Input Power per Port, maximum, watts</b>	100	100	100	100

## VSWR/Return Loss

<b>Frequency Band</b>	<b>VSWR, Maximum</b>	<b>Return Loss, Maximum (dB)</b>	<b>VSWR, Mean</b>	<b>Return Loss, Mean (dB)</b>
<b>698–960 MHz</b>	1.703	11.7	1.499	14
<b>1695–2200 MHz</b>	1.703	11.7	1.499	14
<b>2200–2700 MHz</b>	1.703	11.7	1.499	14
<b>3300–4200 MHz</b>	1.725	11.5	1.499	14

## Mechanical Specifications

**Wind Loading @ Velocity, maximum** 345.0 N @ 241 km/h (77.6 lbf @ 150 mph)

## Environmental Specifications

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

**Relative Humidity** Up to 100%

**Ingress Protection Test Method** IEC 60529:2001, IP65

## Packaging and Weights

**Width, packed** 340 mm | 13.386 in

**Depth, packed** 210 mm | 8.268 in

**Length, packed** 590 mm | 23.228 in

**Included** Mounting bracket

**Weight, gross** 3.5 kg | 7.716 lb

**Weight, net** 2.5 kg | 5.512 lb