

CMAX-DMF-43-WI53-0



Low PIM Directional 2x2 MIMO Outdoor Antenna, 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 White (RAL 9016)
Mounting Wall/Pole Mount, mounting kit included
Mounting Note Pole mounting: 35 to 60 mm, azimuth and elevation adjustable
Number of Ports 2
Radome Material PVC, UV resistant
RF Connector Interface 4.3-10 Female

Dimensions

Width 233 mm | 9.173 in
Depth 85 mm | 3.346 in
Length 325 mm | 12.795 in
Pigtail Length 350 mm | 13.78 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

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Electrical Specifications

Frequency Band, MHz	698–800	800–960	1695–2200	2200–2700	3300–4200
Gain, dBi	7.9	7.9	8.6	9.2	8.3
Beamwidth, Horizontal, degrees	77	75	68	58	51
Beamwidth, Vertical, degrees	65	67	60	55	64
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	15	15	19	19	15
Isolation, Cross Polarization, dB	18	20	18	21	20
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	100	100	100	100	100

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
698–800 MHz	1.7	11.73	1.5	13.98
800–960 MHz	1.7	11.73	1.5	13.98
1695–2200 MHz	1.7	11.73	1.5	13.98
2200–2700 MHz	1.7	11.73	1.5	13.98
3300–4200 MHz	1.7	11.73	1.5	13.98

Mechanical Specifications

Wind Loading @ Velocity, maximum	254.0 N @ 241 km/h (57.1 lbf @ 241 km/h)
Wind Speed, maximum	241 km/h (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	265 mm 10.433 in
Depth, packed	150 mm 5.906 in
Length, packed	428 mm 16.85 in
Included	Mounting bracket

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Weight, gross 2.8 kg | 6.173 lb
Weight, net 1.8 kg | 3.968 lb

