CMAX-LHM2-22-153



Low PIM Directional High Capacity Venue MIMO Antenna 4G/5G/C-Band, 617–960 MHz, 1695–2700 MHz and 3300-4200 MHz, 22-Deg

Product Classification

Product Type Over-the-head stadium antenna

General Specifications

ApplicationIndoor/OutdoorAntenna TypeDirectionalAntenna Array CharacteristicMIMO 2x2

 $\textbf{Polarization} \hspace{2cm} \pm 45^{\circ}$

Color White (RAL 9016)

Number of Ports 2

Radome Material PVC, UV resistant **RF Connector Interface** 4.3-10 Female

Dimensions

 Width
 417 mm | 16.417 in

 Depth
 140 mm | 5.512 in

 Length
 1150 mm | 45.276 in

Electrical Specifications

Impedance50 ohmLightning Protectiondc Ground

Operating Frequency Band 1695 – 2200 MHz | 2200 – 2700 MHz | 3300 – 4200 MHz | 617 – 806 MHz | 806

- 960 MHz

Electrical Note Values typical, unless otherwise stated

Electrical Specifications

 Frequency Band, MHz
 617–806
 806–960
 1695–2200
 2200–2700
 3300–4200

 Gain, dBi
 11.8
 12.5
 10.8
 11.7
 11.2

Page 1 of 3



CMAX-LHM2-22-153

Beamwidth, Horizontal, degrees	24	19	27	21	24
Beamwidth, Vertical, degrees	76	73	75	67	74
Horizontal Sidelobe, dB	14	14	15	15	15
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	20	20	20	20	20
CPR at Boresight, dB	19	20	16	17	18
Isolation, Cross Polarization, dB	22	25	25	25	25
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	200	200	200	200	200

VSWR/Return Loss

Frequency Band	VSWR, Maximum	Return Loss, Maximum (dB)	VSWR, Mean	Return Loss, Mean (dB)
617-800 MHz	1.703	11.7	1.499	14
800-960 MHz	1.725	11.5	1.499	14
1695-2200 MHz	1.703	11.7	1.499	14
2200-2700 MHz	1.703	11.7	1.499	14
3300-4200 MHz	1.703	11.7	1.499	14

Mechanical Specifications

Wind Loading @ Velocity, maximum 1,557.0 N @ 241 km/h (350.0 lbf @ 150 mph)

Wind Speed, maximum 241.4 km/h (150 mph)

Environmental Specifications

Operating Temperature $-40 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ ($-40 \,^{\circ}\text{F}$ to $+140 \,^{\circ}\text{F}$)

Relative Humidity Up to 100%

Ingress Protection Test Method IEC 60529:2001, IP65

Vibration Test Method ASTM D4169 | IEC 60068-2-6

Packaging and Weights

Width, packed 480 mm | 18.898 in

Depth, packed 240 mm | 9.449 in

Length, packed 1300 mm | 51.181 in

Included Mounting bracket



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Net Weight, with mounting kit 13.8 kg | 30.424 lb

Packaging quantity 1

 Weight, gross
 17.5 kg | 38.581 lb

 Weight, net
 11 kg | 24.251 lb

