

CMAX-DM22S-43-V53

Low PIM Directional High Capacity Venue MIMO Antenna, 698–960 MHz and 1710–2700 MHz, 22-Deg



Product Classification

Product Type Over-the-head stadium antenna

General Specifications

Application Indoor/Outdoor
Antenna Type Directional
Antenna Array Characteristic MIMO 2x2
Polarization $\pm 45^\circ$
Color White
Number of Ports 2
Radome Material Fiberglass, UV resistant
RF Connector Interface 4.3-10 Female

Dimensions

Width 360 mm | 14.173 in
Length 900 mm | 35.433 in
Depth 120 mm | 4.724 in

Electrical Specifications

Impedance 50 ohm
Lightning Protection dc Ground

Electrical Specifications

Frequency Band, MHz	698–800	800–960	1695–1880	1850–1990	1920–2180	2200–2700	2300–2360
Gain, dBi	11.8	12.5	11.6	12	12.4	13.6	13.4
Beamwidth, Horizontal, degrees	26	22	27	25	24	20	21

CMAX-DM22S-43-V53

Beamwidth, Vertical, degrees	67	64	67	64	61	56	59
Horizontal Sidelobe, dB	17	19	18	19	18	17	19
Front-to-Back Ratio, Copolarization 180° ± 30°, dB	27	27	33	33	33	33	35
CPR at Boresight, dB	20	20	17	17	18	18	18
Isolation, Cross Polarization, dB	27	27	25	25	25	25	25
VSWR Return loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	200	200	200	200	200	200	200

Mechanical Specifications

Wind Loading at Velocity, maximum	2,127.0 N @ 216 km/h 478.2 lbf @ 216 km/h
Wind Speed, maximum	216 km/h 134.216 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
Vibration Test Method	ASTM D4169 IEC 60068-2-6

Packaging and Weights

Width, packed	420 mm 16.535 in
Depth, packed	220 mm 8.661 in
Length, packed	1160 mm 45.669 in
Included	Mounting bracket
Net Weight, with mounting kit	10.3 kg 22.708 lb
Packaging quantity	1
Weight, gross	13 kg 28.66 lb
Weight, net	7.3 kg 16.094 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ROHS	Compliant

CMAX-DM22S-43-V53

