

CMA-TRI/6515/E02
Tri-Sector Monopole

The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6

XXX-Pol: 1710-2180 MHz

Electrical Specification:

Frequency Range	1710-2180 MHz
Polarization	Dual linear $\pm 45^\circ$
Gain, Average over all Ports	14.8 dBi
Total Gain Tolerance over all Ports	± 0.5 dB
Min / Max Gain over all Ports	14.1 / 15.7 dBi
Gain, Average per Band	1710-1880 14.4 dBi
	1850-1990 14.9 dBi
	1920-2180 15.2 dBi
Azimuth 3 dB Beamwidth	$60^\circ \pm 7^\circ$
Elevation 3 dB Beamwidth	$15.5^\circ \pm 1.6^\circ$
Electrical Down Tilt, Nominal	2.5°
Total Elevation Down Tilt Deviation	0.5°
Cross Polar Discrimination at Boresight	>18 dB
Cross Polar Discrimination at Sector	>10 dB
Port-to-Port Isolation	>30 dB
Front-to-Back Ratio , Total Power, $\pm 30^\circ$	>23 dB
Upper Side Lobe Suppression, Peak to 20°	>13 dB
Passive Intermodulation, IM3	>153 dBc@2x43 dBm
VSWR / Return Loss	<1.5:1 / <14 dB
Nominal impedance	50 Ω
Max Power Per Input	500 W
Antenna Efficiency*	94 %
Sector Power Ratio, Average	6.8 %

Mechanical Specification:

Connectors	6 x 7/16 Female (long neck)
Connector Position	Bottom
Lightning Protection	DC Grounded
Height / Diameter, mm (in)	588 (23.1) / 266 (10.5)
Antenna Weight	11.25 kg (25 lb)
Wind Load at 42 m/s (94 mph) :	71 N (16 lbf)
Survival Wind Speed	70 m/s (156 mph)
Color Radome	Light Grey, RAL 7035
Radome Material	ASA

Mounting Hardware:

Mounting Bracket	1
Mounting Bolt Dimension (mm)	M24x45
Height / Diameter min&max mm (in)	152 (6.0) / 42 (1.6) & 70 (2.8)
Antenna Height incl. Mounting Bracket	740 mm (29.1 in)

Ordering Number:

CMA-TRI/6515/E02	110145
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