

Hex-Port Antenna

CMA-BTLBHH/6516/20/20

XXX-Pol 698-896 / 1710-2360 / 1710-2360

Electrical specification:

Frequency range per input (MHz)	2 x 698-896		4 x 1710-2360		
	698-806	806-896	1710-2180	1850-1990	2305-2360
Frequency band definitions (MHz)					
Polarization	Dual linear $\pm 45^\circ$		2 x Dual linear $\pm 45^\circ$		
Gain (dBi)	15.9	16.0	20.3	20.2	20.9
Horizontal = 3 dB beamwidth ($^\circ$) $\pm 5^\circ$	70	72	61	61	57
Vertical = 3 dB beamwidth ($^\circ$) $\pm 0.8^\circ$	12.1	10.8	4.8	4.8	4.0
Adjustable electrical downtilt	0° - 10°		2° - 8°		
Front to back ratio, total power (dB)	>25		>25	>25	>24
First upper sidelobe suppression	0°, 5°, 10°		2°, 5°, 8°	1 2°, 5°, 8°	
	>18 >17 >16		>17, >17, >16	1 >18, >17, >15	
First nullfill below horizon (dB)			<24	<24	<20
Cross-polar discrimination +/- 0° (dB)	>18		>20	>20	>20
Cross-polar discrimination +/- 60° (dB)	>10		>10	>10	-
VSWR	<1.5:1		<1.5:1	<1.5:1	<1.5:1
Isolation between inputs (dB)	>25		>25		
Isolation between bands (dB)			>30		
Antenna Efficiency*	93 %		92 %		
Inter modulation, IM3 (dBc)			<-153 @2x43 dBm, typical <-160		
Nominal impedance			50 Ω		
Max power per input			500 W		

Mechanical specification:

Connectors	6 x 7/16 female
Connector position	Bottom
Lightning protection	DC grounded
Height/Width/Depth mm (in)	1830 (72.0) / 412 (16.2) / 200 (7.8)
Antenna weight kg (lb)	40 kg (88)

Wind load at 42 m/s (94 mph)

Frontal:	868 N (195 lbf)
Lateral:	182 N (41 lbf)
Rear:	818 N (184 lbf)
	67 m/s (150 mph)

Survival wind speed

Colour radome	Light Grey, RAL 7035
Radome material	ASA

Mounting hardware:

Mounting bracket	2
Bracket weight (complete)	7,0 kg (15.6 lb)
Pole diameter	50-120 mm (2.0-4.7 in)
Tilt bracket	0° - 5° mechanical

Product Numbers:

CMA-BT-LBHH/6516/20/20/A15/RET	110365
--------------------------------	--------

