

Hex-Port Antenna

CMA-BTLBHH/6518/21/21

XXX-Pol 698-896 / 1710-2180 / 1710-2180

Electrical specification:

Frequency range per input (MHz)	2 x 698-896		4 x 1710-2180		
Frequency band definitions (MHz)	698-806	806-896	1710-1880	1850-1990	1920-2180
Polarization	Dual linear $\pm 45^\circ$		2 x Dual linear $\pm 45^\circ$		
Gain (dBi)	16.8	17.5	20.3	20.6	21.1
Horizontal = 3 dB beamwidth ($^\circ$) $\pm 4^\circ$	69	72	63	62	61
Vertical = 3 dB beamwidth ($^\circ$) $\pm 0.5^\circ$	9.0	7.9	4.4	4.1	3.9
Adjustable electrical downtilt	0° - 10°		0° - 6°		
Front to back ratio, total power (dB)	>25		>25		
First upper sidelobe suppression	0°, 5°, 10° >18 >17 >16		0°, 3°, 6° >18, >17, >16		
First nullfill below horizon (dB)			<20		
Cross-polar discrimination +/0° (dB)	>20		>20		
Cross-polar discrimination +/60° (dB)	>10		>10		
VSWR	<1.5:1		<1.5:1		
Isolation between inputs (dB)	>28		>30		
Isolation between bands (dB)			>30		
Antenna Efficiency*	92 %		93 %		
Inter modulation, IM3 (dBc)			<-153 @2x43 dBm		
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)	2438 (96.0) / 412 (16.2) / 200 (7.8)
Antenna weight kg (lb)	49 kg (108.9)
Wind load at 42 m/s (94 mph)	
Frontal:	997 N (224.1 lbf)
Lateral:	322 N (72.4 lbf)
Rear:	1220 N (274.2 lbf)
Survival wind speed	67 m/s (150 mph)
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/6518/21/21/MET	110390
CMA-BT-LBHH/6518/21/21/RET	110395

