

Hex-Port Antenna

CMA-BTLBHH/6518/20/20

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

Electrical specification:

Frequency range per input (MHz)	2 x 698-896		4 x 1710-2360		
Frequency band definitions (MHz)	698-806	806-896	1710-2180	1850-1990	2305-2360
Polarization	Dual linear $\pm 45^\circ$		2 x Dual linear $\pm 45^\circ$		
Gain (dBi)	17.0	17.4	20.3	20.1	20.9
Horizontal = 3 dB beamwidth ($^\circ$) $\pm 4^\circ$	69	71	61	61	57
Vertical = 3 dB beamwidth ($^\circ$) $\pm 0.8^\circ$	9.0	7.9	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° >18 >17 >16		2°, 5°, 8° >17, >17, >16		1 2°, 5°, 8° >18, >17, >15
First nullfill below horizon (dB)			<20	<20	<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*	92 %		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)	2438 (96.0) / 412 (16.2) / 200 (7.8)
Antenna weight kg (lb)	47 kg (104.4)

Wind load at 42 m/s (94 mph)	
Frontal:	1195 N (268.5 lbf)
Lateral:	249 N (56.0 lbf)
Rear:	1147 N (257.8 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/6518/20/20/A15/RET	110375
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