

# Dual-Pol Antenna

## CMA-B/3324/E0-6

### X-Pol: 1710-2180



#### Electrical specification:

Frequency range per input (MHz)	1710-1880	2 x 1710-2180	
Frequency band definitions (MHz)		1850-1990	1920-2180
Polarization		Dual linear $\pm 45^\circ$	
Gain (dBi)	23.0	23.3	24.0
Horizontal = 3 dB beamwidth ( $^\circ$ ) $\pm 3^\circ$	35	34	33
Vertical = 3 dB beamwidth ( $^\circ$ ) $\pm 0.3^\circ$	4.5	4.2	4.0
Adjustable electrical downtilt ( $^\circ$ )		0 - 6	
Front to back ratio, $\pm 30^\circ$ total power (dB)		>28	
Horizontal sidelobe suppression (dB)		>15	
First upper sidelobe suppression (dB)		0 $^\circ$ , 3 $^\circ$ , 6 $^\circ$ >19, >17, >17	
First nullfill below horizon, typical (dB)		< 20	
Cross-polar discrimination +/-0 $^\circ$ typ.(dB)		>20	
Cross-polar discrimination +/-30 $^\circ$ (dB)		>10	
VSWR / Return Loss		<1.5:1 / <14 dB	
Isolation between inputs (dB)		>30	
Antenna efficiency*		92 %	
Inter modulation, IM3 (dBc)		<-153 @2x43 dBm, typical <-160	
Nominal impedance		50 $\Omega$	
Max power per input		500 W	

#### Mechanical specification:

Connectors	2 x 7/16 female
Connector position	Bottom
Lightning protection	DC grounded
Height/Width/Depth mm (in)	2060 (81.1) / 288 (11.3) / 168 (6.6)
Antenna weight	23 kg (51.1 lb)

#### Wind load at 42 m/s (94 mph) :

Frontal:	574 N (129 lbf)
Lateral:	250 N (56 lbf)
Rear:	481 N (108 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)	5.2 kg (11.5 lb)
Pole diameter	45-120 mm (1.8-4.7 in)
Tilt bracket	0 $^\circ$ - 5 $^\circ$ mechanical

#### Ordering information:

CMA-B/3324/E0-6/RET	110535
---------------------	--------

