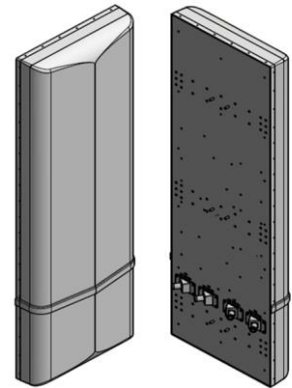


C7CAP-FRO-656

Dual-Band-Circular Pol, Fast-Roll-Off, 56° H-Beam

- Circular Pole Antenna
- Designed to Improve SNR
- Greatly Increases Data Rates
- Fast Roll Off
- Optional Internal Diplexers
- Suitable for LTE/CDMA/UMTS/GSM



Available with Integrated Diplexers

Reduces Mainline Cables
Eliminates external tower devices



ELECTRICAL SPECIFICATIONS

Frequency Band, MHz	698-824	824-896	1710-1850	1850-1990	1900-2170
Horizontal Beam Width, 3dB points	59°	54°	59°	56°	53°
Gain, dBi	15.8	16.3	18.6	18.9	19.2
Vertical Beam Width, 3dB points	12.0°	10.5°	5.2°	5.0°	4.8°
Front-to-Back at 180°, dB	>29		>29		
Upper Side Lobe Suppression, Typical, dB	<-18		<-18		
Axial Ratio, dB, Maximum	3.0		3.0		
Polarization	LHCP & RHCP		LHCP & RHCP		
Electrical Down Tilt	0° or 2°		0° or 2°		
VSWR/Return Loss, dB, Max. w/o Diplexers	1.35:1/16.5		1.35:1/16.5		
VSWR/Return Loss, dB, Max. with Diplexers	1.5:1/14.0		1.5:1/14.0		
Isolation Between Ports, dB, (TX Frequencies)	< -24		< -24		
Intermodulation (2x20w), IM3, dBc, Maximum	-150		-150		
Impedance, ohms	50		50		
Maximum Power Per Connector, CW (w)	500		250		
Lightning Protection	DC Ground		DC Ground		

MECHANICAL SPECIFICATIONS

Dimensions, Length/Width/Depth	72.0/18.8/9.1 in (1829/478/231 mm)
Connector (Quantity) Type	(2 or 4) 7-16 DIN Female
Connector Torque	220-265 lbf-in (23-30 N-m)
Connector Location	Back
Antenna Weight est.	42.2 lb (19.2kg)
Bracket Weight	13.2 lb (6.0 kg)
Standard Bracket Kit	P/N 919032 (Included)
Mechanical Down Tilt Range	0-12°
Radome Material	High Strength Luran, UV Stabilized, ASTM D1925
Wind Survival	150 mph (241 km/h)
Front Wind Load	234.0 lbf (1039.93 N)
Equivalent Flat Plate	4.8 sq-ft (c=2) @ 100mph

ORDER INFORMATION

MODEL	DESCRIPTION
C7CAP-FRO-656-xy	Dual-Band-Circular-Pol antenna,(4) back DIN conn., x = Low Band (0° or 2°), y = High Band (0° or 2°)
C7CAP-FRO-656-xy-ip	Dual-Band-Circular-Pol antenna, (2) back DIN conn w/int. dipl., x=Low Band (0° or 2°), y = High Band (0° or 2°)
919049	Bracket Kit, 2-Point, 12 deg D-tilt, For 4.5" maximum OD Pole