

P12240151760R16F7

Multi Band 12-Port Antenna

2 x 698~806 / 2 x 824~960 / 4 x 1710~1880 / 4 x 2300~2400MHz

65°/ 65°/65°/65° Horizontal Beam Width

Connector			R1 Connector 1-2	R1 Connector 3-4
Frequency Band		MHz	698-806	824-960
Polarization			±45°	±45°
Gain	At mid tilt	dBi	14.0	14.5
	Over all Tilts	dBi	14.0±0.5	14.5±0.5
VSWR			1.5	
Return Loss		dB	14	
Cross Polar Isolation		dB	25	
Port to Port Isolation (Inter Band)		dB	40	
Passive Intermodulation,2 x 43dBm Carrier		dBc	-150	-150
Max. Effective Power per Port		W	500	
Impedance		Ω	50	
Horizontal Pattern				
Azimuth Beamwidth		°	67	66
Azimuth Beamwidth Tolerance		°	±3	±3
Front to Back Ratio, Copolar, ±30°		dB	≥30	≥30
Cross Polar Discrimination at Boresight		dB	≥20	≥20
Cross Polar Discrimination over Sector		dB	≥8	≥8
Sector Power Ratio		%	≤6	≤6
Vertical Pattern				
Elevation Beamwidth		°	16.4	13.5
Elevation Beamwidth Tolerance		°	±1.5	±1.3
Electrical Downtilt continuously adjustable		°	2-14	2-14
Upper Sidelobe Suppression (Beam peak ~ +20 deg)		dB	≥15	≥15

Connector			B1-B2 Connector 5-8	Y1-Y2 Connector 9-12
Frequency Band		MHz	1710-1880	2300-2400
Polarization			$\pm 45^\circ$	$\pm 45^\circ$
Gain	At mid tilt	dBi	17.0	17.0
	Over all Tilts	dBi	17.0 ± 0.5	17.0 ± 0.5
VSWR				1.5
Return Loss		dB		14
Cross Polar Isolation		dB		25
Port to Port Isolation (Inter Band)		dB		40
Passive Intermodulation, 2 x 43dBm Carrier		dBc	-150	-
Max. Effective Power per Port		W		250
Impedance		Ω		50
Horizontal Pattern				
Azimuth Beamwidth		$^\circ$	67	64
Azimuth Beamwidth Tolerance		$^\circ$	± 3	± 3
Front to Back Ratio, Copolar, $\pm 30^\circ$		dB	≥ 30	≥ 30
Cross Polar Discrimination at Boresight		dB	≥ 20	≥ 20
Cross Polar Discrimination over Sector		dB	≥ 8	≥ 8
Sector Power Ratio		%	≤ 6	≤ 4
Vertical Pattern				
Elevation Beamwidth		$^\circ$	7.0	7.0
Elevation Beamwidth Tolerance		$^\circ$	± 0.5	± 0.5
Electrical Downtilt continuously adjustable		$^\circ$	0-10	0-10
Upper Sidelobe Suppression (Beam peak $\sim +20$ deg)		dB	≥ 15	≥ 15

Connector	Quantity	EA	12 x 7-16 DIN Female
	Location		Bottom
Dimensions	Antenna	mm	375/170/1565
Weight	Antenna	Kg	23
	Clamp	Kg	3
	Packing	Kg	32
Radome	Material		FRP
	Color		Gray
Wind Load (at 150km/h wind velocity)	Frontal	N	781.0
	Lateral	N	354.1
	Rear	N	781.0
Max. Wind Velocity		Km/h	216
Operational Temperature		°C	-40~70
Adjustment Mechanism			Internal RET (3CH)
Mast Diameter Supported		mm	40~115

