

7752.00

Dual Broadband Cross Polarized

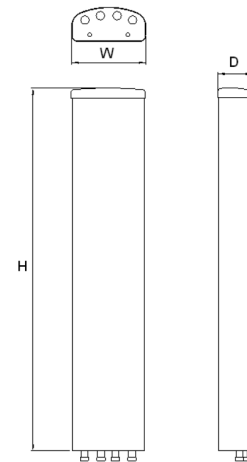
POLARIZATION: XX-Pol
 FREQUENCY (MHz): 824-960, 1710-2170
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi dBd): 16.7/14.6, 17.6/15.5
 TILT: 2-9°/0-8°
 LENGTH: 2.0m (6'6")

ELECTRICAL SPECIFICATIONS*

	824-960		1710-2170		
	824-896	870-960	1710-1880	1850-1990	1900-2170
Frequency range (MHz)					
Frequency band (MHz)	824-896	870-960	1710-1880	1850-1990	1900-2170
Gain (dBi/dBd)	15.8/13.7	16.7/14.6	17.1/15	17.3/15.2	17.6/15.5
Polarization	Dual linear $\pm 45^\circ$		Dual linear $\pm 45^\circ$		
Nominal Impedance (Ω)	50		50		
VSWR	1.5:1		1.5:1		
Horizontal beam width, -3 dB (°)	71	67	63	63	61
Vertical beam width, -3 dB (°)	9.6	8.9	7.1	6.6	6.3
Electrical down tilt (°)	2 - 9		0 - 8		
Side lobe suppression, vertical 1st upper (dB)	>17,16,15,14@ 2,4,6,8°	>17,16,15,14@ 2,4,6,8°	>17,16,15,14,13@ 2,4,6,8°	>18,18,17,16,16@ 2,4,6,8°	>20,19,19,18,17@ 2,4,6,8°
Isolation between inputs (dB)	30	30	30	30	30
Inter band Isolation (dB)	40				
Tracking, horizontal plane $\pm 60^\circ$ (dB)	<1.0	<1.0	<2.0	<2.0	<3
First null fill (dB)	>-25	>-25	>-25	>-25	>-25
Vertical beam squint (°)	0.5	0.5	0.5	0.5	0.4
Front to back ratio (dB) $180^\circ \pm 30^\circ$ copolar	>27	>27	>27	>30	>30
Front to back ratio (dB) $180^\circ \pm 30^\circ$ total power	>25	>25	>25	>25	>25
Cross polar discrimination (XPD) 0° (dB)	16	15	16	16	16
Cross polar discrimination (XPD) $\pm 60^\circ$ (dB)	> 12	> 9.5	> 6.2	> 6.5	> 7.5
Far field coupling	<0.26	<0.39	<0.5	<0.59	<0.59
IM3, 2xTx&43dBm (dBc)	<-153		<-153		
IM7, 2xTx&43dBm (dBc)	-		<-160		
Power handling, average per input (W)	300		250		
Power handling, average total (W)	600		500		

MECHANICAL SPECIFICATIONS*

Connector	4 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm(ft)	2033x280x125mm (6'8"x11"x4")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	19.8 (44)
Weight, without brackets, kg (lbs)	16.0 (35)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	653
Maximum operational wind speed, m/s (mph)	42 (93)
Survival wind speed, m/s (mph)	70 (156)
Lightning protection	DC grounded
Operating Temperature	-40°C to +60°C
Radome Material	GRP
Radome colour	Light Grey
Packing size, HxWxD, mm (ft)	2175x355x255 (7'2"x14"x10")
Shipping weight, kg (lbs)	27 (59.5)
RET	8210.40, 8210.10, 8220.40, 8220.10
Brackets	7256.00, 7454.00



*All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

ANTENNA PATTERNS*

For detailed patterns visit <http://www.powerwave.com/rpa/>.