

**7755.0ST.0002.00****Dual Broadband Cross Polarized With Integrated Diplexer**

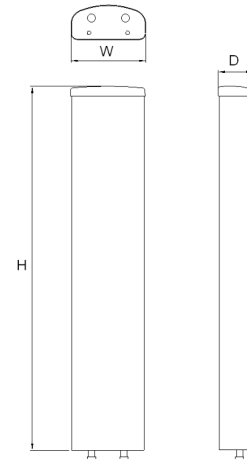
POLARIZATION: XX-Pol  
 FREQUENCY (MHz): 824-960, 1710-2170  
 HORIZONTAL BEAM WIDTH (°): 65  
 GAIN (dBi dBd): 17.3/15.2, 17.8/15.7  
 TILT: MET (with Integrated Diplexer)  
 LENGTH: 2.6m (8'6")

**ELECTRICAL SPECIFICATIONS\***

	824-960		1710-2170		
	824-896	880-960	1710-1880	1850-1990	1900-2170
Frequency range (MHz)					
Frequency band (MHz)	824-896	880-960	1710-1880	1850-1990	1900-2170
Gain (dBi/dBd)	16.6/14.5	17.3/15.2	17.3/15.2	17.6/15.5	17.8/15.7
Polarization	Dual linear $\pm 45^\circ$		Dual linear $\pm 45^\circ$		
Nominal Impedance ( $\Omega$ )	50		50		
VSWR	1.5:1		1.5:1		
Horizontal beam width, -3 dB (°)	71	67	65	65	62
Vertical beam width, -3 dB (°)	7.4	7.0	6.9	6.4	6.1
Electrical down tilt (°)	2 to 8		0 to 8		
Side lobe suppression, vertical 1st upper (dB)	>18,18,17,16,16@ 2,4,6,8°	>18,18,17,16,16@ 2,4,6,8°	>17,16,15,14,13@ 2,4,6,8°	>17,17,16,15,14@ 2,4,6,8°	>17,17,16,15,14@ 2,4,6,8°
Isolation between inputs (dB)	30	30	30	30	30
Inter band Isolation (dB)	38		-		
Tracking, horizontal plane $\pm 60^\circ$ (dB)	<1.0	<1.0	<1.5	<1	<3.5
First null fill (dB)	>-25	>-25	>-25	>-25	>-25
Vertical beam squint (°)	0.5	0.5	0.5	0.5	0.5
Front to back ratio (dB) $180^\circ \pm 30^\circ$ copolar	>30	>30	>30	>30	>30
Front to back ratio (dB) $180^\circ \pm 30^\circ$ total power	>25	>25	>25	>25	>25
Cross polar discrimination (XPD) $0^\circ$ (dB)	16	14	16	16	16
Cross polar discrimination (XPD) $\pm 60^\circ$ (dB)	>11	>9.5	>6.3	>7.2	>7.5
Far field coupling	<0.3	<0.41	<0.53	<0.58	<0.58
IM3, 2xTx&43dBm (dBc)	<-150		<-150		
IM7, 2xTx&43dBm (dBc)	-		<-160		
Power handling, average per input (W)	300		250		
Power handling, average total (W)	600		500		

**MECHANICAL SPECIFICATIONS\***

Connector	2 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm(ft)	2658x280x125mm (8'8"x11"x4")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	25.1 (55)
Weight, without brackets, kg (lbs)	19.6 (43)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	880
Maximum operational wind speed, m/s (mph)	42 (93)
Survival wind speed, m/s (mph)	55 (123)
Lightning protection	DC grounded
Operating Temperature	-40°C to +60°C
Radome Material	GRP
Radome colour	2800x355x255 (9'2"x1'2"x10")
Packing size, HxWxD, mm (ft)	Light Grey
Shipping weight, kg (lbs)	32.5 (71.6)
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/>.