

5478.06

LBB Dual Polarized FET Antenna

POLARIZATION: X-Pol
 FREQUENCY (MHz): 806-960
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi/dBd): 17.4/15.1
 TILT: 6
 LENGTH: 2.6m (8'6")

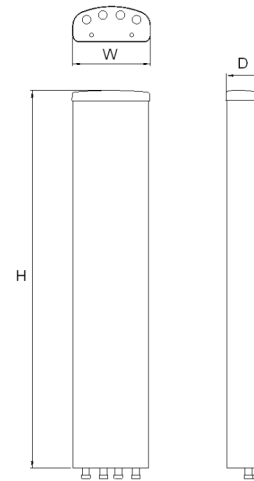
PRELIMINARY

ELECTRICAL SPECIFICATIONS*

	806-960		880-960	
	806-869	824-894		
Frequency range (MHz)				
Frequency band (MHz)	806-869	824-894	880-960	
Gain (dBi/dBd)	17.4	17.7	18.0	
Polarization	+/- 45		+/-45	
HPBW (°)	50		50	
VSWR	1.4:1		1.4:1	
Horizontal beam width, -3 dB (°)	68	67	64	
Vertical beam width, -3 dB (°)	7.5	7.5	7	
Electrical down tilt (°)	6		6	
Side lobe suppression, vertical 1st upper (dB)	>15	>15	>15	
Isolation between inputs (dB)	>30	>30	>30	
Inter band Isolation (dB)				
Tracking, horizontal plane ±60° (dB)	<2.0	<2.0	<1.0	
First null fill (dB)	<20	<20	<20	
Vertical beam squint (°)	<0.5	<0.5	<0.5	
Front to back ratio (dB)	>30	>30	>30	
Front to back ratio, total power (dB)	>25	>25	<25	
Cross polar discrimination (XPD) 0° (dB)				
Cross polar discrimination (XPD) ±60° (dB)	>12	>12	>12	
Far field coupling				
IM3, 2xTx@43dBm (dBc)	<150		<-150	
IM7, 2xTx@43dBm (dBc)				
Power handling, average per input (W)	300		300	
Power handling, average total (W)	600		600	

MECHANICAL SPECIFICATIONS*

Connector	2 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	2630x280x125
Mounting	Pre Mounted Standard Brackets
Weight, with brackets, kg (lbs)	19.7
Weight, without brackets, kg (lbs)	
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	
Maximum operational wind speed, m/s (mph)	55
Survival wind speed, m/s (mph)	70
Lightning protection	DC grounded
Radome material	PVC
Package size, HxWxD, mm (ft)	2175x355x255 (7'2"x14"x10")
Radome colour	Grey (RAL 7035 on all visible plastic parts)
Shipping weight, kg (lbs)	
RET	
Brackets	



*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/>.

Typical Horizontal and Vertical Pattern for Above Antenna

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