

# P65-16-XL-4

## Very Low Broadband Antennas

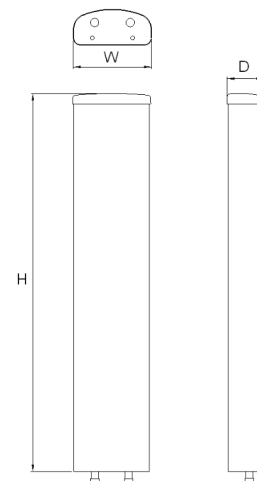
POLARIZATION: Dual linear  $\pm 45^\circ$   
 FREQUENCY (MHz): 698-894  
 HORIZONTAL BEAM WIDTH ( $^\circ$ ): 65  
 GAIN (dBi/dBd): 16.0/13.9  
 TILT:  $4^\circ$   
 LENGTH: 72"

### ELECTRICAL SPECIFICATIONS\*

Frequency range (MHz)	698-894	
	698-806	806-894
Frequency band (MHz)	698-806	806-894
Gain (dBi/dBd)	15.5/13.4	16.0/13.9
Polarization	Dual Linear +/- 45	
Nominal Impedance ( $\Omega$ )	50	
VSWR	< 1.33: 1	
Horizontal beam width, -3 dB ( $^\circ$ )	68	65
Vertical beam width, -3 dB ( $^\circ$ )	10.5	9.5
Side lobe suppression, vertical 1st upper (dB)	> 15	> 15
Isolation between inputs (dB)	> 30	> 30
Tracking, horizontal plane $\pm 60^\circ$ (dB)	< 2	< 2
Electrical Downtilt Range	4	
Vertical beam squint ( $^\circ$ )	< 0.5	< 0.5
Front to back ratio (dB) $180^\circ \pm 30^\circ$ copolar	> 30	> 30
Front to back ratio (dB) $180^\circ \pm 30^\circ$ total power	> 25	> 25
Cross polar discrimination (XPD) $0^\circ$ (dB)	> 15	> 15
Cross polar discrimination (XPD) $\pm 60^\circ$ (dB)	> 10	> 10
IM3, 2xTx@43dBm (dBc)	-153	
Power handling, average per input (W)	400	
Power handling, average total (W)	800	

### MECHANICAL SPECIFICATIONS\*

Connector	2 X 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, in (mm)	72" x 12" x 5" (1829 x 305 x 125)
Mounting	Pre-mounted Tilt Brackets
Weight, with brackets, lbs (kg)	44 (20)
Weight, without brackets, lbs (kg)	33 (15)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.0 (N)	1380
Maximum operational wind speed, mph (m/s)	100 (45)
Survival wind speed, mph (m/s)	125 (55)
Lightning protection	DC Ground
Operating Temperature	
Radome material	PVC
Packet size, HxWxD, in (mm)	82" x 16" x 10" (2082 x 400 x 255)
Radome colour	Light Grey
Shipping weight, lbs (kg)	55 (25)
RET	N/A
Brackets	7256.00, 7454.00, 2210.00



\*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/>.