

## P90-15-XL-R

## Very Low Broadband Antennas

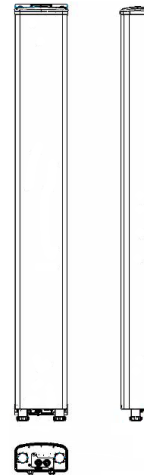
POLARIZATION: Dual linear  $\pm 45^\circ$   
 FREQUENCY (MHz): 698-894  
 HORIZONTAL BEAM WIDTH ( $^\circ$ ): 90  
 GAIN (dBi/dBd): 14.7/12.6  
 TILT: 2-11  
 LENGTH: 72"

## ELECTRICAL SPECIFICATIONS\*

Frequency range (MHz)	698-894	
Frequency band (MHz)	698-806	806-894
Gain (dBi/dBd)	13.8/11.7	14.7/12.6
Polarization	Dual Linear +/- 45	
Nominal Impedance ( $\Omega$ )	50	
VSWR	< 1.4:1	
Horizontal beam width, -3 dB ( $^\circ$ )	90	81
Vertical beam width, -3 dB ( $^\circ$ )	14.9	12.2
Electrical down tilt ( $^\circ$ )	2-11	
Side lobe suppression, vertical 1st upper (dB)	> 15	> 16
Tracking, horizontal plane $\pm 60^\circ$ (dB)	< 2	< 2
Isolation between inputs (dB)	> 30	> 30
First null fill (dB)		
Vertical beam squint ( $^\circ$ )	< 0.8	< 0.8
Front to back ratio (dB) $180^\circ \pm 30^\circ$ copolar	> 17	> 24
Front to back ratio (dB) $180^\circ \pm 30^\circ$ total power	> 22	> 22
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)	> 500	
Power handling, average total (W)	> 500	

## MECHANICAL SPECIFICATIONS\*

Connector	2 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, in (mm)	72" x 12" x 6" (1829 x 305 x 186)
Mounting	Pre-mounted Tilt Brackets
Weight, with brackets, lbs (kg)	55 (25)
Weight, without brackets, lbs (kg)	44 (20)
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)	150 (67)
Lightning protection	DC Ground
Operating Temperature	
Radome material	PVC
Packet size, HxWxD, in (mm)	87" x 16" x 10" (2082 x 400 x 255)
Radome colour	Light Grey
Shipping weight, lbs (kg)	66 (30)
RET	iRET AISGv1.1, MET and AISGv2.0
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/>.