

P90-16-XL-M

Very Low Broadband Antennas

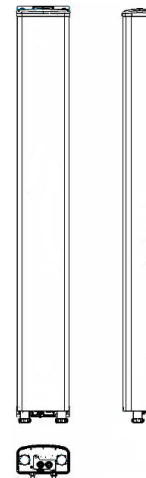
POLARIZATION: Dual linear $\pm 45^\circ$
 FREQUENCY (MHz): 698-894
 HORIZONTAL BEAM WIDTH ($^\circ$): 90
 GAIN (dBi/dBd): 16.1/14.0
 TILT: 0-6
 LENGTH: 96" (2438mm)

ELECTRICAL SPECIFICATIONS*

Frequency range (MHz)	698-894	
	698-806	806-894
Frequency band (MHz)	698-806	806-894
Gain (dBi/dBd)	15.4/13.3	16.1/14.0
Polarization	Dual Linear +/- 45	Dual Linear +/- 45
Nominal Impedance (Ω)	50	50
VSWR	< 1.4:1	< 1.4:1
Horizontal beam width, -3 dB ($^\circ$)	86	81
Vertical beam width, -3 dB ($^\circ$)	9.7	7.7
Side lobe suppression, vertical 1st upper (dB)	> 16	> 16
Isolation between inputs (dB)	> 30	> 30
Tracking, horizontal plane $\pm 60^\circ$ (dB)	< 2	< 2
Electrical Downtilt Range	0 - 6	0 - 6
Vertical beam squint ($^\circ$)	< 0.5	< 0.5
Front to back ratio (dB) $180^\circ \pm 30^\circ$ copolar	> 17	> 25
Front to back ratio (dB) $180^\circ \pm 30^\circ$ total power	> 22	> 22
Cross polar discrimination (XPD) 0° (dB)	> 15	> 15
Cross polar discrimination (XPD) $\pm 60^\circ$ (dB)	10	10
IM3, 2xTx@43dBm (dBc)	-153	-153
Power handling, average per input (W)	500	500
Power handling, average total (W)	1000	1000

MECHANICAL SPECIFICATIONS*

Connector	2 X 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, in (mm)	96" x 12" x 7" (2438 x 305 x 182)
Mounting	Pre-mounted tilt brackets
Weight, with brackets, lbs (kg)	59 (27)
Weight, without brackets, lbs (kg)	48 (22)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.0 (N)	1840
Maximum operational wind speed, mph (m/s)	100 (45)
Survival wind speed, mph (m/s)	150 (67)
Lightning protection	DC Ground
Operating Temperature	-40 - +70C
Radome material	PVC
Packet size, HxWxD, in (mm)	107" x 16" x 10" (2725 x 400 x 255)
Radome colour	Light Grey
Shipping weight, lbs (kg)	70 (32)
RET	iRET AISGv1.1, MET and AISGv2.0 Available
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/>.