P90-14-XL-M ⋮ Very Low Broadband Antennas

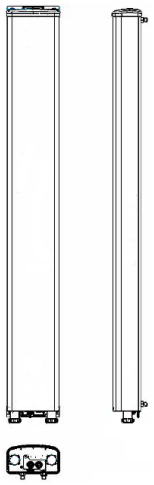
POLARIZATION: Dual linear ±45°
FREQUENCY (MHz): 698-894
HORIZONTAL BEAM WIDTH (°): 85
GAIN (dBi/dBd): 13.7/11.6
TILT: 2 - 15
LENGTH: 48”

ELECTRICAL SPECIFICATIONS*

Frequency range (MHz)	698-894	
Frequency band (MHz)	698-806	806-894
Gain (dBi/dBd)	13.0/10.9	13.7/11.6
Polarization	Dual Linear +/- 45	Dual Linear +/- 45
Nominal Impedance (Ω)	50	50
VSWR	< 1.4:1	< 1.4:1
Horizontal beam width, -3 dB (°)	83	81
Vertical beam width, -3 dB (°)	18	15
Side lobe suppression, vertical 1st upper (dB)	>20	>20
Isolation between inputs (dB)	> 30	> 30
Tracking, horizontal plane ±60° (dB)	< 2	< 2
Electrical Downtilt Range	2 - 15	2 - 15
Vertical beam squint (°)	< 1.25	< 1.25
Front to back ratio (dB) 180°±30° copolar	> 25	> 25
Front to back ratio (dB) 180°±30° total power	> 22	> 22
Cross polar discrimination (XPD) 0° (dB)	> 15	> 15
Cross polar discrimination (XPD) ±60° (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, IP67
Connector position	Bottom
Dimensions, HxWxD, in (mm)	48” x 12” x 6” (1219 x 305 x 152)
Mounting	Pre-mounted tilt brackets
Weight, with brackets, lbs (kg)	36 (16)
Weight, without brackets, lbs (kg)	25 (11)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.0 (N)	920
Maximum operational wind speed, mph (m/s)	100 (45)
Survival wind speed, mph (m/s)	150 (67)
Lightning protection	DC Ground
Operating Temperature	-40C to +60C
Radome material	PVC, IP55
Packet size, HxWxD, in (mm)	58” x 16” x 10” (1475 x 400 x 255)
Radome colour	Light Grey
Shipping weight, lbs (kg)	44 (20)
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/.

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