

P65-15-XDHHW2-R**Quadruple Broadband X-Pol 790-960/2x1710-2170/2500-2690MHz iRET**

POLARIZATION: XXXX-Pol
 FREQUENCY (MHz): 1x790-960, 2x1710-2170, 1x2500-2690
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi dBd): 14.7/12.6, 14.8/12.7, 18/15.9
 TILT: 0-20°/0-12°/0-9°
 LENGTH: 1.4m(4'7")

PRELIMINARY**ELECTRICAL SPECIFICATIONS***

Frequency range (MHz)	1x790-960		2x1710-2170; 1x2500-2690		
	790-894	870-960	1710-1880	1900-2170	2500-2690
Frequency band (MHz)	790-894	870-960	1710-1880	1900-2170	2500-2690
Gain (dBi/dBd)	14.0/11.9	14.7/12.6	14.4/12.3	14.8/12.7	18.0/15.9
Polarization	Dual linear ±45°		Dual linear ±45°		
Nominal Impedance (Ω)	50		50		
VSWR	<1.5:1		<1.5:1		
Horizontal beam width, -3 dB (°)	73	67	65	64	62
Vertical beam width, -3 dB (°)	14.0	14.7	14.4	14.8	7.5
Electrical down tilt (°)	0 - 20		0 - 12 / 0 - 9		
Side lobe suppression, vertical 1st upper (dB)	>15	>15	>15	>15	>15
Isolation between inputs (dB)	>30	>30	>30	>30	>30
Inter band Isolation (dB)	>35		>35		
Tracking, horizontal plane ±60° (dB)	<2.0	<2.0	<1.5	<1.5	<1.5
First null fill (dB)	>-24 typical >-17	>-24 typical >-17	>-24 typical >-17	>-24 typical >-17	>-24 typical >-17
Vertical beam squint (°)	0.5	0.5	0.5	0.5	0.5
Front to back ratio (dB) 180° ±30° copolar	>27	>28	>28	>28	>30
Front to back ratio (dB) 180° ±30° total power	>26	>26	>25	>27	>27
Cross polar discrimination (XPD) 0° (dB)	>13	>13	>13	>13	>13
Cross polar discrimination (XPD) ±60° (dB)	>10	>10	>10	>10	>10
Far field coupling					
IM3, 2xTx&43dBm (dBc)	<-150		<-150		
IM7, 2xTx&43dBm (dBc)			<-160		
Power handling, average per input (W)	300		250		
Power handling, average total (W)	600		1000		

MECHANICAL SPECIFICATIONS*

Connector	8x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm(ft)	1408x330x155mm(4'7"x13"x6")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	17.5(38.6)
Weight, without brackets, kg (lbs)	12(26.4)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	535 / 71 / 638
Maximum operational wind speed, m/s (mph)	42(93)
Survival wind speed, m/s (mph)	55(123)
Lightning protection	DC Grounded
Operating Temperature	-40°C to +60°C
Radome Material	PVC
Radome colour	Light Gray
Packing size, HxWxD, mm (ft)	1550x400x255(61"x16"x10")
Shipping weight, kg (lbs)	21.5(47.4)
RET	4x 8510.40 factory attached iRET and configured to AISGv2.0
Brackets	7256.00,7454.00A

*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/>.