

P65-18-XXCHH-N**Dual Triple Broadband Cross Polarized - 12 connectors**

POLARIZATION: XXXXXX-Pol
 FREQUENCY (MHz): 2x824-960, 4x1710-2170
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi dBd): 17.3/15.2, 17.9/15.8, 17.9/15.8
 TILT: 2-8°/0-8°/0-8°
 LENGTH: 2.6m (8'6")

ELECTRICAL SPECIFICATIONS*

	2x 824-960		4x 1710-2170		
	824-896	870-960	1710-1880	1850-1990	1900-2170
Frequency range (MHz)					
Frequency band (MHz)	824-896	870-960	1710-1880	1850-1990	1900-2170
Gain (dBi/dBd)	16.7/14.6	17.3/15.2	17.3/15.2	17.5/15.4	17.9/15.8
Polarization	Dual linear ±45°		Dual linear ±45°		
Nominal Impedance (Ω)	50		50		
VSWR	1.5:1		1.5:1		
Horizontal beam width, -3 dB (°)	71	67	66	65	62
Vertical beam width, -3 dB (°)	7.4	6.9	6.7	6.4	6.2
Electrical down tilt (°)	2 - 8		0 - 8		
Side lobe suppression, vertical 1st upper (dB)	>17,16,15,14@ 2,4,6,8°	>17,16,15,14@ 2,4,6,8°	>17,16,15,14,13@ 0,2,4,6,8°	>17,16,15,14,13@ 0,2,4,6,8°	>17,16,16,15,15@ 0,2,4,6,8°
Isolation between inputs (dB)	30	30	>30	30	>30
Inter band Isolation (dB)	38		38		
Tracking, horizontal plane ±60° (dB)	<1	<1	<1.1	<1.0	<2.9
First null fill (dB)	25	25	25	25	25
Vertical beam squint (°)	0.5	0.5	0.5	0.5	0.5
Front to back ratio (dB) 180° ±30° copolar	>28	>28	>30	>30	>30
Front to back ratio (dB) 180° ±30° total power	>27	>27	>27	>27	>25
Cross polar discrimination (XPD) 0° (dB)	16	15	16	15	17
Cross polar discrimination (XPD) ±60° (dB)	>12	>9.5	>7.0	>7.5	>7.7
Far field coupling	<0.24	<0.44	<0.47	<0.52	<0.52
IM3, 2xTx&43dBm (dBc)	-150		-150		
IM7, 2xTx&43dBm (dBc)	-		-160		
Power handling, average per input (W)	300		250		
Power handling, average total (W)	1200		2000		

MECHANICAL SPECIFICATIONS*

Connector	12 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm(ft)	2690x565x142mm (8'9"x22"x6")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	58.0 (128)
Weight, without brackets, kg (lbs)	47.0 (104)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	1800 / 170 / 2120
Maximum operational wind speed, m/s (mph)	45 (100)
Survival wind speed, m/s (mph)	67 (150)
Lightning protection	DC grounded
Operating Temperature	-40°C to +60°C
Radome Material	FRP
Radome colour	Light Grey
Packing size, HxWxD, mm (ft)	2800x680x300 (9'2"x26"x12")
Shipping weight, kg (lbs)	66 (145)
RET	8210.40, 8210.10, 8230.40, 8230.10
Brackets	Heavy duty standard mounting hardware



*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/>.