

P65-18-CH-N

High Broadband Circular Polarized

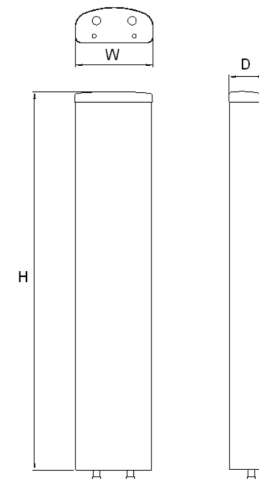
POLARIZATION: C-Pol
 FREQUENCY (MHz): 1710-2170
 HORIZONTAL BEAM WIDTH (°): 65
 GAIN (dBi/dBd): 18.1/16.0
 TILT: 0-8°
 LENGTH: 1.3m (4'3")

ELECTRICAL SPECIFICATIONS*

Frequency range (MHz)	1710-2170		
Frequency band (MHz)	1710-1880	1850-1990	1920-2170
Gain (dBi/dBd)	17.4/15.3	17.6/15.5	18.1/16.0
Polarization	Circular polarized		
Nominal Impedance (Ω)	50		
VSWR	<1.4:1		
Horizontal beam width, -3 dB (°)	67	66	64
Vertical beam width, -3 dB (°)	7.0	6.6	6.3
Electrical down tilt (°)	0-8		
Side lobe suppression, vertical 1st upper (dB)	>18,18,16,16,14,@0,2,4,6,8°	>18,18,16,16,14,@0,2,4,6,8°	>18,18,16,16,14,@0,2,4,6,8°
Isolation between inputs (dB)	>16 typical 20	>16 typical 20	>16 typical 20
Tracking, horizontal plane ±60° (dB)	<1.0	<1.0	<1.0
First null fill (dB)	>-24,typical>-18	>-24,typical>-18	>-24,typical>-18
Vertical beam squint (°)	0.5	0.5	0.5
Front to back ratio (dB) 180°±30° copolar	>30	>30	>30
Front to back ratio (dB) 180°±30° total power	>27	>27	>27
Cross polar discrimination (XPD) 0° (dB)	>17	>17	>20
Cross polar discrimination (XPD) ±60° (dB)	>18	>14	>12
Far field coupling	-	-	-
IM3, 2xTx@43dBm (dBc)	<-153	<-153	-
IM7, 2xTx@43dBm (dBc)	-	-	<-160
Power handling, average per input (W)	250		
Power handling, average total (W)	500		

MECHANICAL SPECIFICATIONS*

Connector	2 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	1309x167x89.5 (4'3"x6"x3")
Mounting	Pre-mounted standard brackets
Weight, with brackets, kg (lbs)	9.7 (21.3)
Weight, without brackets, kg (lbs)	6.0 (13.2)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	281
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	ASA
Radome colour	Light Grey
Package size, HxWxD, mm (ft)	1480x200x200 (4'10"x8"x8")
Shipping weight, kg (lbs)	13.5 (29.7)
RET	8110.40, 8110.10
Brackets	7456.00A, 7454.00A, 7455.00, 7458.00A



*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/>.