7760.03 Dual High Broadband Cross Polarized

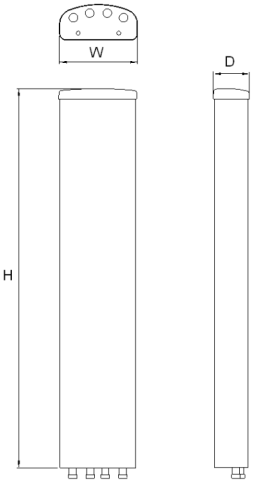
POLARIZATION: X-Pol
FREQUENCY (MHz): 1710-2170
HORIZONTAL BEAM WIDTH (°): 65
GAIN (dBi/dBd): 18/15.9
TILT: MET
LENGTH: 1.3m (4'3")

ELECTRICAL SPECIFICATIONS*

Frequency range (MHz)		1710-2170	
Frequency band (MHz)	1710-1880	1850-1990	1920-2170
Gain (dBi/dBd)	17.7/15.6	17.7/15.6	17.9/15.8
Polarization		Dual linear ±45°	
Nominal Impedance (Ω)		50	
VSWR		<1.4:1	
Horizontal beam width, -3 dB (°)	67	65	63
Vertical beam width, -3 dB (°)	7.1	6.8	6.2
Electrical down tilt (°)		2 to 10 and 6 to 14	
Side lobe suppression, vertical 1st upper (dB)	>19,19,18,17,16@2,4,6,8,10°	>19,19,18,17,16@2,4,6,8,10°	>19,19,18,17,16@2,4,6,8,10°
Isolation between inputs (dB)	>30	>30	>30
Tracking, horizontal plane ±60° (dB)	<2.0	<2.0	<2.0
First null fill (dB)	>-27,typical>-18	>-24,typical>-18	>-24,typical>-18
Vertical beam squint (°)	0.5	0.5	0.5
Front to back ratio (dB)	>28	>28	>28
Front to back ratio, total power (dB)	>28	>28	>28
Cross polar discrimination (XPD) 0° (dB)	>16	>16	>20
Cross polar discrimination (XPD) ±60° (dB)	>16	>13	>10
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)		1000	

MECHANICAL SPECIFICATIONS*

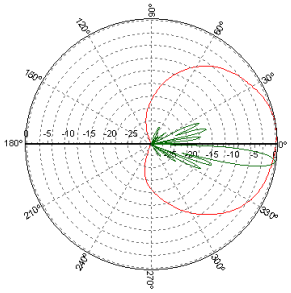
Connector	4 x 7/16 DIN Female
Connector position	Bottom
Dimensions, HxWxD, mm (ft)	1320x343x100 (4'4"x1'1"x3")
Mounting	Pre-mounted heavy duty brackets
Weight, with brackets, kg (lbs)	19.5 (42.9)
Weight, without brackets, kg (lbs)	14 (30.8)
Wind load, frontal/lateral/rear side 42 m/s Cd=1.6 (N)	1093
Maximum operational wind speed, m/s (mph)	42 (93)
Survival wind speed, m/s (mph)	55 (123)
Lightning protection	DC grounded
Radome material	ASA
Radome colour	Light Grey
Package size, HxWxD, mm (ft)	1430x400x200 (4'8"x1'3"x7")
Shipping weight, kg (lbs)	27.5 (60.6)
RET	7010.00, 7011.00, 7012.00
Brackets	7256.00, 7454.00, 2210.10



*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/.



1850 MHz

2140 MHz