

MULTI BAND PANEL ANTENNA (PENTA) BAND 900 + 4x BROADBAND 1710 – 2170 MHz

PT1D3-800TV

1 X 870 - 960	4 X 1710 - 2170		
870 - 960	1710-1880	1850-1990	1920-2170
H60° V7.2°	H69° V7°	H65° V6.7°	H61° V6.5°
Variable Tilt 3° - 10°	Variable Tilt 2° - 12°	Variable Tilt 2° - 12°	Variable Tilt 2° - 12°

ELECTRICAL SPECIFICATIONS

BAND 900

4 X BROADBAND 1710-2170 MHz

Antenna Model	PT1D3-800TV			
Polarization	± 45°			
Frequency	870 - 960	1710-1880	1850-1990	1920-2170
Horizontal Beamwidth	60°	69	65°	61°
Vertical Beamwidth	7.2°	7°	6.7°	6.5°
Gain (dBi)				
Bottom antennas	17	16.6	16.6	17
Top antennas		16.5	16.5	16.7
Vertical Electrical Tilt	VARIABLE 3°-10°	VARIABLE 2°-12°	VARIABLE 2°-12°	VARIABLE 2°-12°
Upper Sidelobe Suppression for the 1 st lobe above main beam (dB)	T3 T6 T10 19.5 18 20	T2 T7 T12 16 20 18	T2 T7 T12 16 20 17	T2 T7 T12 15 17 16
Front-to-Back Ratio @ 180° ± 20° (dB)	25	20	20	22.5
VSWR	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1
Cross Polar Ratio @ -3° (dB) <i>Typically</i>	>15	>13	>12	>15
Isolation between Ports (dB)	>30	>30	>30	>30
Interband Isolation (dB)	> 40 (870 – 960 // 1710 - 2170) > 30 (1710 – 2170 // 1710 – 2170)			
Maximum Power Per Input (W)	500	250		
Intermodulation @ 43 dBm (dBc)	- 150			
Impedance (Ω)	50			



MECHANICAL SPECIFICATIONS

Connectors	10 X 7/16 Female
Connector Position	Bottom
Survival Wind Speed km/h (mph)	200 (125)
Front Windload N @ 160 km/h (lbs @100 mph)	1400 (315)
Lateral Windload N @ 160 km/h (lbs @100 mph)	330 (74)
Radome Color	Grey, paintable
Humidity	100%
Antenna Weight kg (lbs)	40 (88)
Antenna Dimension mm (in) H X W X D	2615 X 350 X 145 (103 X 14 X 6)

