

MULTI BAND PANEL ANTENNA (QUAD)

2x BAND 850 + 2x BROADBAND 1710 – 2170 MHz

TGA2D3-800TV-EX

2 X 824 - 896	2 X 1710 - 2170		
824 - 896	1710-1880	1850-1990	1920-2170
H69° V14.5°	H65° V6.6°	H64° V6.6°	H63° V6.5°
Variable Tilt 0° - 10°	Variable Tilt 0° - 10°	Variable Tilt 0° - 10°	Variable Tilt 0° - 10°

ELECTRICAL SPECIFICATIONS

2 X BAND 850

2 X BROADBAND 1710-2170 MHz

Antenna Model	TGA2D3-800TV-EX			
Polarization	+/- 45°			
	2 X (824 – 896)			2 X (1710 – 2170)
Frequency	824 - 896	1710 - 1880	1850 - 1990	1920 - 2170
Horizontal Beamwidth	69°	65°	64°	63°
Vertical Beamwidth	14.5°	6.6°	6.6°	6.5°
Gain (dBi)	T0 T5 T10	T0 T5 T10	T0 T5 T10	T0 T5 T10
	TOP BOTTOM	13.6 13.5 13.3 14 13.8 13.7	16.5 16.7 16.6 16.7 17.5 16.8	16.3 16.6 16.1 16.7 17.7 16.7
Vertical Electrical Tilt	VARIABLE 0°-10°	VARIABLE 0°-10°	VARIABLE 0°-10°	VARIABLE 0°-10°
Upper Sidelobe Suppression for the 1 st lobe above main beam (dB)	T0 T5 T10	T0 T5 T10	T0 T5 T10	T0 T5 T10
Front-to-Back Ratio @ 180° ± 20° (dB)	19 19 19	19 19 17	19 19 17	19 19 17
VSWR	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1	< 1.5 : 1
Cross Polar Ratio @ ± 60° (dB) <i>Typically</i>	> 10	> 10	> 10	> 10
Isolation between Ports (dB)	> 30	> 30	> 30	> 30
Interband Isolation (dB)	> 40 (824-896//1710-2170) > 30 (1710-2170//1710-2170)			
Maximum Power Per Input (W)	500	250		
Intermodulation (dBc)	< - 150			
Impedance (Ω)	50			



MECHANICAL SPECIFICATIONS

Connectors	8 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)

