

4.5 Meter Prime Focus C-Band Tx Rx Antenna



VS-450TX



Your Trusted Source for Satellite Equipment

- **C Band Linear or Circular Frequencies**
- **12 Panel Stretch Formed Reflector**
- **Available with Fixed or Motorized Mounts**

ELECTRICAL SPECIFICATIONS		
Operational Frequencies	3.7 - 4.2 GHz 5.925 - 6.425 GHz	
Gain at Midband (Reference to OMT Port)	43.6 dBi minimum @ 4.0 GHz 46.7 dBi minimum @ 6.175 GHz	
VSWR	1.3:1 maximum	
Polarization	Dual (Linear or Circular)	
Polarization Adjustment	360° Continuous (Manually) 300° Continuous (Motorized)	
Cross-Pol Isolation Suppresion	30 dB (on-axis)	
Isolation (Port to Port)	35 dB minimum	
3 dB Beamwidth (Nominal)	1.1° @ 4.0 GHz 0.76° @ 6.175 GHz	
First Sidelobe Level	-22.dB	
Envelope (Where θ is angle off axis)	29 – 25 Log θ dBi $1^\circ < \theta < 7^\circ$ +8 dBi $7^\circ < \theta < 9.2^\circ$ 32 – 25 Log θ dBi $9.2^\circ < \theta < 48^\circ$ -10 dBi (averaged) $48^\circ < \theta < 180^\circ$	
Antenna Noise Temperature @ 4.0GHz	Elevation 40°	Temp 22K
MECHANICAL SPECIFICATIONS		
Reflector Construction	12 Panels, Precision Stretch Stamped Steel	
Mount Type	Elevation over Azimuth	
Azimuth Travel Sector	360° degrees (Manually) 120° degrees continuous (Motorized)	
Elevation Travel Sector	0-90° degrees continuous	

TX-RX_VS-450TX_PF-12_CL-CC_REV004
Specifications are subject to change without notice

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