4.5 Meter Prime Focus C-Band Tx Rx Antenna



VS-450TX

VIKING SATCOM

Your Trusted Source for Satellite Equipment

- **C Band Linear or Circular Frequencies**
- **12 Panel Precision Stretched Stamped Steel Reflector**
- **Available with Fixed or Motorized Mounts**

ELECTRICAL SPECIFICATIONS		
	Linear	**Circular**
Operational Frequencies	3.4 - 4.2 GHz 5.85 - 6.725 GHz	3.625 - 4.2 GHz 5.85 - 6.425 GHz
Gain at Midband	42.5 dBi 46.9 dBi	42.8 dBi 46.7 dBi
VSWR	Tx: 1.4:1 Rx: 1.4:1 (3.625-4.2 GHz) RX: 1.6:1 (3.4 - 3.625 GHz)	1.4:1 Tx & Rx
Polarization	Dual (Linear)	Dual (Circular)
Polarization Adjustment	360° Continuous (Manually) 300° Continuous (Motorized, LP)	360° Continuous (Manually)
Cross-Pol Isolation Suppresion	30 dB (on-axis)	15.6 dB (Rx), 17.7 dB (Tx)
Isolation (Port to Port)	80 dB Rx 60 dB Tx	
3 dB Beamwidth (Nominal)	1.2° @ 4.0 GHz 0.8° @ 6.2 GHz	
Envelope (Where θ is angle off axis)	29 – 25 Log θ dBi +8 dBi 32 – 25 Log θ dBi -10 dBi (averaged)	1° < θ < 7° 7° < θ < 9.2° 9.2° < θ < 48° 48° < θ < 180°
Antenna Noise Temperature @ 4.0GHz, 40°E	22K	26K
MECHANICAL SPECIFICATIONS		
Reflector Construction	12 Panel Precision Stretched Stamped Steel Reflector	12 Panel Precision Stretched Stamped Steel Reflector
Mount Type	Elevation over Azimuth	Elevation over Azimuth
Azimuth Travel Sector	360° degrees (Manually) 120° degrees continuous (Motorized)	360° degrees (Manually) 120° degrees continuous (Motorized)

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