

**INTELSAT TYPE APPROVED 1.2M KU-BAND
VSAT ANTENNA WITH WIDEBAND TX/RX LINEAR POLARIZED FEED**

VS-120TX



- **INTELSAT TYPE APPROVED 1.2 M KU-BAND VSAT**
- **TX/RX FEED ASSEMBLY INCLUDED**
- **BULK SHIPPED OR INDIVIDUALLY BOXED**

ELECTRICAL SPECIFICATIONS

	RECEIVE	TRANSMIT
Frequency (GHz)	10.95 – 12.75	13.75 – 14.50
Antenna Gain (dBi) @ midband	42.15	43.50
Antenna Noise Temperature 30°elevation	40K	
G/T at 30°EI	21.6 dB/K with 68 K LNA	
Cross-Pol Isolation: w/in tracking beam width	>35 dB (on-axis) 25dB	>35 dB (on-axis) 25dB
VSWR	1.3:1	1.3:1
Feed Insertion Loss	0.10 dB	0.08 dB
Feed Interface	WR 75 cover flange	WR75 cover flange
Sidelobe Envelope (100*) / D 20°		
20° < 26.3°	29-25 Log dBi -3.5 dBi 32-25	29-25 Log dBi -3.5 dBi 32-
26.3° < 48° > 48°	Log dBi -10 dBi	25 Log dBi -10 dBi

MECHANICAL SPECIFICATIONS

Antenna Optics	Prime Focus Offset Feed
Reflector Material	Single-piece steel reflector with rolled edges
Mount Type	Elevation over Azimuth
Azimuth Alignment	0°-360° Course and fine adjustment
Elevation Alignment	15°-90° Continuous fine adjustment
Mast Pipe Size	76 mm

ENVIRONMENTAL DATA

Operational Wind loading (survivable)	80Km/Hr (200 Km/Hr)
Operational Temperature (survivable)	-40°C -+60°C (-40°C -+71°C)
Humidity	0 – 100%