

Satellite Transmit/L-Band Translator

Technical Specifications	
Frequency range	(See table on front page)
Max input level	+10 dBm no damage
RF/ IF Interfaces	
Input/Output Connector	SMA (female)
Input impedance	50 Ω
Input Return loss	18dB
Output impedance	50 Ω
Output Return Loss	16dB
Input/Output Connector	SMA (female)
Return loss	16 dB
Conversion Parameters	
Conversion Gain	20 dB nominal
Gain adjustment	20 dB
Attenuator step size	0.1 dB
Gain flatness	±1.5.dB p-p over full band ±0.5 dB p-p over 36 MHz
Gain stability	±0.75 dB over 0° to +55°C ±0.25 dB max. / 24 hours
Spurious	-55 dBc In-band at Pin = -25dBm
Phase noise	10 Hz -30 - X dBc
	100 Hz -60 - X dBc
	1000Hz -70 - X dBc
	10 kHz -80 - X dBc
	100 kHz -90 - X dBc
1 MHz to 5 MHz -90 - X dBc	
For X, K1, K2 and K3 , X equals 5 -> -85dBc at 10KHz	
For DBS. X equals 3 -> -83dBc at 10KHz	
Controls & Indicators	
Attenuator select	
Local/Remote	
Mute/Unmute	
Reference	
External Reference	10 MHz
External ref. input level	0 dBm ± 5 dB
Internal reference stability	+/-2 x 10 ⁻¹⁰ / day +/-2 x 10 ⁻⁸ over T ^o
Aging	+/-5 x 10 ⁻⁸ / year
Mechanical	
Dimensions	Width 19" (482.6 mm) Height 1U 1.75" (44.5 mm) Depth 24" (609.6 mm)
Power Supply	
Voltage	90 – 265 VAC (47 – 63 Hz)
Power	50W
Connector	IEC 603320 10A
Monitor and Control	
RS 485	DB9
RS232	DB9
Discrete	DB9
Environmental	
Operational	0°C to +50°C standard
Storage	-55°C to +85°C
Humidity	Non-condensing
Altitude	3,000m AMSL

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