

DTVP3

KU-BAND LNB/LNBF

BSS / CIRCULAR

Phase III LNBF

DIRECTV, 101°, 100°, 119°

Integrated Triple LNB with built-in Multi-Switch



Model Number	DTVP3
Satellite & Polarization Selection	
Sat A (101 W) LHCP	18 VDC
Sat A (101 W) RHCP	13 VDC
Sat C (110 W) LHCP +Sat B (119 W) LHCP	18 VDC + 22 kHz Tone
Sat B (119 W) RHCP	13 VDC + 22 kHz Tone
Input Frequency Range	12.2 to 12.7 GHz
Output Frequency Range	950 to 1450 MHz
Output VSWR	2.0 :1
LO Frequency	Sat A and Sat B:11.2500 MHz Sat C:11.5416 MHz
Conversion Gain Range	Sat A and Sat B: 55 to 67 dB Sat C: 54 to 66 dB
Noise Figure over Temperature	Sat A and Sat B: 1.1 dB (max.) Sat C: 1.4 dB (max.)
Isolation, between satellites	30 dB
Isolation, cross polarities	25 dB
Local Oscillator Phase Noise	
1kHz Offset	- 50 dBc/Hz
10 kHz Offset	- 75 dBc/Hz
100 kHz Offset	- 95 dBc/Hz
1MHz Offset	- 115 dBc/Hz
Life Total Local Oscillator Frequency Drift (temp., aging, ...)	4.0 MHz (max.)
Gain Flatness	
Over Any 24 MHz Band (pk – pk)	1 dB (max.)
Over 500 MHz Band (pk – pk)	5 dB (max.)
Over Any Adjacent 24 MHz Bands (pk – pk)	1.5 dB (max.)
Image Rejection	40 dBc
Third Order Intermodulation	- 50 dBc
1 dB Compression Point (500 MHz)	0.0 dBm
Operating Voltage Range	
Left-hand Circular Polarity (LHCP)	14.5 to 21 VDC
Right-hand Circular Polarity (RHCP)	9.5 to 14.0 VDC
Min Bias Current to LNB, each input, one or more IRD's	30 mA
Max Bias Current to LNB, each input, one or more IRD's	200 mA
LNB Input Filter Capacitance	0.47 typical
Operating Temp Range	- 34 C to + 52 C
Output Port Number	4
DirecTV ODU w/ 18"x 20" Dish Single Unit Package	22.2"x19.9"x7.1"; GW: 11.7 lbs
DirecTV ODU w/ 18"x 20" Dish 4-unit Package	22.6"x20.3"x15.4"; G.W: 44 lbs