

RADITEK

SATCOM

C Band LNB / PLL

Low Noise Block Converter, C Band to L band, N female Connectors, 24 Volts, Internal Reference, PLL



Features -

Low Noise Temperature
Low DC Current Drain
Small Size and Light Weight



RF Frequency	Local Frequency	IF Connector	Local Stability	IF Connector	Power Supply	
3.400 to 4.200 GHz (Palapa C-band)	5.15 GHz	950 to 1,750 MHz	+/- 3 ppm	F-type	+24 VDC (+12 to +24 VDC)	
3.625 to 4.200 GHz (Standard C-band)		950 to 1,525 MHz		N-type		
4.500 to 4.800 GHz (Insat C-band)	5.76 GHz	960 to 1,260 MHz		F-type		
				N-type		

Order Examples: RLNB-Cin-L Band-N(f)-24V,IR-PLL-a8

Description: (Low Noise Block Converter, 4.5 to 4.8 GHz, L band, N female Connectors, 24 Volts, Internal Reference, Phase Locked Loop)

Item	Specifications
Input Interface	Waveguide, CPR229 (with Groove)
Output Interface	N-type, female (50 ohm) F-type, female (75 ohm)
Noise Temperature (Ta.: +25 C)	15 K typ., 30 K max.
Linear Gain (Ta.: +25 C)	59 dB min., 66 dB max.
Local Stability	+/-2.5 ppm (Ta.: -30 to +60 C) +/-3.0 ppm (Ta.: -40 to +60 C)
L.O. Phase Noise	-70 dBc/Hz typ. @ 100 Hz -80 dBc/Hz typ. @ 1 kHz -85 dBc/Hz typ. @ 10 kHz -95 dBc/Hz typ. @ 100 kHz
Spurious	a) -140 dBm max. at input, Fixed frequency spur, unrelated to test CW signal (Measured at specified IF band). b) -55 dBc max. with test CW signal -10 dBm IF output (Measured at specified IF band).
Input V.S.W.R.	3.0 : 1 typ.
Output V.S.W.R.	2.5 : 1 max.
Power Requirement	+24 VDC (+12 to +24 VDC)
Current Drain	350 mA max.
Temperature Range (ambient)	-40 to +60 C (operating), -40 to +80 C (storage)
Dimension & Housing (without Interface Connectors)	80.8 mm (L) x 99.6 mm (W) x 76 mm (H) [3.18" (L) x 3.92" (W) x 2.99" (H)]
Weight	800 g [1.76 lbs]

Low Noise Block Converter, C Band to L band, N female Connectors, 24 Volts, Internal Reference, PLL

code-a8

