

RADITEK

SATCOM

C Band LNB / PLL

Low Noise Block-Converter

C to L Band, N or F Type Connectors, Phase Locked



Features –

- 1 dB Gain Compression + 10dBm
- Suitable for high data rate digital communication applications
- Low Power Consumption
- Low Noise



Order Examples: RLNB-3.4-4.2-N(f)-PLL-s8

Description: (Low Noise Block Converter, 3.4 to 4.2 GHz, N female Connectors, Phase Locked Loop)

Specifications		Units
RF Input Frequency	3.4 to 4.2	GHz
IF Output Frequency	950 to 1750	MHz
Local Frequency	5.15	GHz
Local Frequency Initial Offset	±1ppm max. @ +25	°C
Local Frequency Stability		
Standard @ -40 to +60°C, +25°C Reference	±2.5.	ppm. max
Option : @ -40 to +60°C, +25°C Reference	±1.0	ppm. max.
Local Oscillator Leakage @ waveguide input	-45..	dBm max
Local Phase Noise (SSB):		
Offset Frequency @1 kHz	-80	dBc/Hz max
@10 kHz	-85	dBc/Hz max
@100 kHz	-95	dBc/Hz max
Noise Temperature (+25°C)	20 30	K Typ K Max
Gain: Over Frequency & Temperature	55 to 70	dB
Gain Ripple per 36MHz segment across the frequency band	1	dBp-p max
Input VSWR	3.0	:1 max
Output VSWR @ 75Ω	2.5	:1 max.
Image Rejection	-45	dBc max
1 dB Gain Compression Point	+10	dBm min
Spurious in Rx Band	-130dBm max. @ waveguide input excluding Rx out ± 1 MHz measured at RF Input power -85dBm	
Input Voltage supplied through center conductor of the IF cable	+12 to +24	V
Current	250	mA max
Input Interface	CPR-229G	
Output Interface	F-Type, 75Ω, female, Waterproof N-Type, 50Ω, female, Waterproof	
Size	(L)144 x (W) 68 x (H) 39 mm (L) 5.6 x (W) 2.6 x (H) 1.5	mm in.
Weight	500	g approx.
Paint/Color	White, Munsell N9.5 semigloss	
Operating Temperature	-40 to +60	°C
Storage Temperature	-40 to +75	°C
Relative Humidity	Up to 100%, condensation and frost	
Altitude	Up to 10,000 feet @ operating	

RLNB-C-L-Nf-PLL-s8

Specifications may be subject to change

04/06/10

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