

RADITEK

SATCOM
Ku Band LNB / PLL

Low Noise Block-Converter Ku Band, L Band Interface, Type N or F Connectors ,Phase Locked Loop, External Reference



Order Examples: RLNB-10.95-11.70-L-Nf-PLL-v7

Description: (Low Noise Block up Converter, 10.95-11.70 GHz, L Band, N female connector,
Phase Locked Loop, External Reference)

Specifications	Unit			
RF Input Frequency	GHz	11.70 to 12.20	12.25 to 12.75	10.95 to 11.70
IF Output Frequency	MHz	950 to 1450		950 to 1700
Local Frequency	GHz	10.75	11.30	10.0
Local Frequency Stability		Phase locked to external reference		
Requirement for External Reference		Supplied through the center conductor of IF cable		
	MHz	Frequency	10 (sine wave)	
	dBm	Input Level	0 to 10 @ IF out	
		Phase Noise		
	dBc/Hz	@ 100Hz	-134 max	
	dBc/Hz	@ 1 KHz	-144 max	
	dBc/Hz	@ 10 KHz	-154 max	
	dBc/Hz	@ 100 KHz	-154 max	
Local Phase Noise		Offset Frequency	Phase Noise	
		100Hz	-70 dBc/Hz	
		1 KHz	-80 dBc/Hz	
		10 KHz	-85 dBc/Hz	
		100 KHz	-105 dBc/Hz	
Noise Figure	dB max	0.8 @ +25°C		
Gain	dB	55 to 70 Over Frequency and Temperature		
Gain Ripple	dB	1 P.P max per 36MHz segment across the frequency board		
1dB Gain Compression Point	dBm	+10 min		

Low Noise Block-Converter

code-v7

Ku Band, L Band Interface, Type N/F Connector, Phase Lock Loop

Specifications	Unit	
Spurious in RxBand	dBm max	-140 @ waveguide input excluding Rx out $\pm$ 1MHz measured at RF input power – 85 dBm
Input Voltage	V	+12 to +24 supplied through center conductor of the IF cable
Current	mA	220
Input Interface		WR-75 Waterproof – Mated with matching flange and O-ring
Output Interface		Standard: F-Type, 75 Ω , female, Waterproof
		Option: N Type, 50 Ω , Waterproof
Size	Mm/(in)	125/(4.9) x 60/(2.3) x 22/(0.8) w/o flange
Weight	g	Approx 300
Operating Temperature	°C	- 40 to + 60
Storage Temperature	°C	-40 to + 80