

Switchable Wide Ku-Band External Reference Low Noise Block

MODEL No. nLKu-1012W-E



Features

- Single Unit Switchable Wide Ku-band LNB (10.70 to 12.75 GHz)
- Frequency Band Selection via DC voltage and 22kHz
- RHCP or LHCP Polarity Switching via DC voltage
- Low Power Consumption
- Small Size, Light Weight, Low Cost Design
- Satellite Remote, Hub, Mobile, DSNG applications

Parameters	Specifications			
Frequency Band	Band 1	Band 2	Band 3	Band 4
Input Frequency Range	10.7 to 11.45 GHz	11.45 to 12.2 GHz	12.0 to 12.75 GHz	10.95 to 11.7 GHz
Output Frequency Range	950 to 1700 MHz			
Local Oscillator Frequency	9.75 GHz	10.50 GHz	11.05 GHz	10.00 GHz
Selection	13V, 22KHz off	13V, 22KHz off	18V, 22KHz on	18V, 22KHz on
Noise Figure	0.8 dB typ.			
Input Waveguide Flange	WR75 waveguide			
Conversion Gain	50 dB min. (62 dB typ.)			
Gain Variation	± 0.5 dB over 27 MHz			
Gain Flatness	± 0.5 dB over 27 MHz			
LO Frequency Stability	Depending on External Reference 10MHz			
SSB LO Phase Noise	-70 dBc/Hz @ 1 KHz offset -80 dBc/Hz @ 10 KHz offset -90 dBc/Hz @ 100 KHz offset			
Image Rejection	30 dB min.			
Output Power at P1dB	+10 dBm typ.			
LO Radiation	-60 dBm typ.			
Output Return Loss	2:1 typ.			
Output Connector Interface	50Ω N-type			
DC Supply Voltage	11.5 to 19.0 VDC			
DC Current Consumption	330mA max.			
Polarity Switching Voltage	RHCP: 10.5 to 14.2 VDC LHCP: 15.5 to 21.0 VDC			
Band Switching Voltage	Band 1,2: 11.5 to 14.0 VDC Band 3,4: 16.0 to 19.0 VDC			
Operating Temperature	-30° to +60°C			

specifications subject to change without prior notice