



NORSAT 3120 C-BAND PLL LNB

Norsat 3120 High Stability PLL LNB. 3.40 to 4.20 GHz. LO Stability 1.0 ppm $\hat{A}\pm 5$ kHz. Noise Temperature: 20 K. Type F connector The 3000 Series is Norsat's premium quality C-Band LNB. The preferred LNB for all C-Band applications.

APPLICATIONS

- LOW DATA RATE DIGITAL VIDEO
- A REFERENCE LNB FOR RX TEST AND SERVICE
- SCPC DIGITAL OR ANALOG AUDIO APPLICATIONS
- LOW SPEED SCPC DATA FROM 19.2 - 512 KBPS, OR ANY HIGHER DATA RATE

NORSAT ADVANTAGES

- NORSAT LNBS ARE GRADED BY STABILITY AND NOISE TEMPERATURE TO PROVIDE THE PERFECT BALANCE BETWEEN REQUIRED PERFORMANCE .
- EXCELLENT PLL LO STABILITY TO CONTROL RECEIVER DRIFT AND EMPLOY LOWER BIT RATES OR NARROWER SPACE SEGMENT
- EXCELLENT PHASE NOISE TO LOWER CARRIER TO NOISE MARGINS, IMPROVING BER

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Noise temperature	20°K
L.O. stability (over temperature excl offset)	1.0 ppm - ±5 kHz
Phase noise (SSB)	-73 dBc/Hz at 1kHz -83 dBc/Hz at 10kHz -93 dBc/Hz at 100kHz
Input VSWR	2.2 : 1
Output VSWR	2.2 : 1
Conversion gain	62 dB
Output P1dB	9 dBm
Power requirements	+15 to +24 V supplied through center conductor of IF cable
Current drain	330 mA
Input Waveguide	CPR 229G
Dimensions	180 (L) x 100 (W) x 70 (H) mm (7.1 x 4.0 x 2.8 in)
Weight	700g / 25 oz
Temperature Range	-40°C to +60°C

Frequency Bands Available

Input frequency (GHz)	3.40 to 4.20
L.O. frequency (GHz)	5.15
Output frequency (MHz)	950 to 1750