



Norsat  
International Inc.

Innovative Communication Solutions

# LNB

## C-BAND PLL

### 3220

#### HIGH STABILITY



## SPECIFICATIONS

Noise Temperature at room temp. @CF	20K: 20K typ., 24K Max. 25K: 25K typ., 28K Max. 30K: 30K typ., 32K Max.	DC Power	+ 12V to + 24 V DC
L.O. Stability	$\pm 2$ kHz to $\pm 25$ kHz	Current	250 mA max.
Phase noise (SSB) max.	-80 dBc/Hz at 1kHz -85 dBc/Hz at 10kHz -95 dBc/Hz at 100kHz	Input (waterproof)	CPR229G waveguide grooved
Input VSWR	2.2 : 1 max.	Output (waterproof)	F-Connector (75 Ohm) N-Connector (50 Ohm)
Output VSWR	2.5 : 1 max.	Dimensions (L x W x H)	145 mm x 70 mm x 99 mm (5.7 in x 2.8 in x 3.9 in)
Gain	62 dB typ., 55 dB min., 70 dB max.	Weight	500 g (17.64 oz)
Gain Flatness (over full band)	$\leq 6$ dB p-p max.	Operating Temperature	- 40 to + 60°C
Output P1dB	+ 9 dBm	Storage Temperature	- 40 to + 80°C

## FREQUENCY BANDS

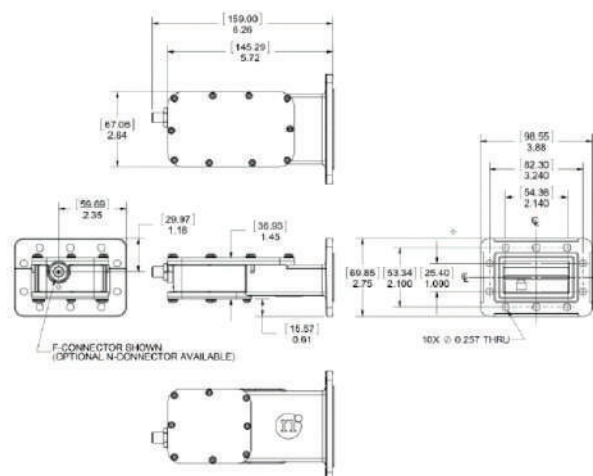
Frequency Band (GHz)	3.40 to 4.20
L.O. Frequency (GHz)	5.15
IF Frequency (MHz)	950 to 1750

## HOW TO ORDER

### 3220F

CONNECTOR	F - 75 Ohm N - 50 Ohm
NOISE TEMPERATURE	20 - 20K 25 - 25 K 30 - 30 K
L.O. STABILITY	4: $\pm 2$ kHz 6: $\pm 3$ kHz 8: $\pm 4$ kHz 1: $\pm 5$ kHz 2: $\pm 10$ kHz 5: $\pm 25$ kHz
LNB SERIES #	

## MECHANICAL DIAGRAM



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