



Norsat[®]
International Inc.

Digital Ku-Band DRO LNB 7000 Series

LNB

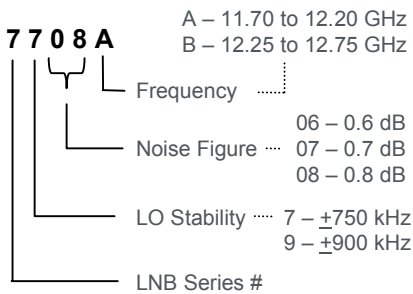


The Norsat 7000 Series LNB is a good performing LNB used for demanding commercial applications.

The 7000 series offers a solid commercial quality LNB that is widely used in analog video or subcarrier audio and data applications such as:

- Commercial analog video
- Subcarrier and FM2 audio services
- Subcarrier and FM2 data services

How to Order a 7000 Series LNB



Norsat Advantages

- Norsat LNBs are graded by Stability and Noise Figure to provide the perfect balance between required performance and cost
- Compact to fit in smaller enclosure and reduce wind profile
- Proven reliability for lower lifetime costs
- LO stability for higher bit rate applications
- Good Phase Noise for a wide range of data rates

Ku DRO Series

Best	●	4000
Better	●	7000
Good	●	6600

Norsat Ku-band DRO LNB Product Line

	6600	7000	4000
Noise Figure	0.5dB to 0.8dB	0.6dB to 0.8dB	0.6dB to 0.8dB
Input VSWR	2.5:1	2.5:1	2.5:1
LO Stability	± 1 MHz	± 750 to ± 900 kHz	± 150 to ± 500 kHz
Phase Noise	-55dBc/Hz @ 1kHz	-55dBc/Hz @ 1kHz	-65dBc/Hz @ 1kHz

Corporate Information For additional information or details on Norsat's product offering, please contact us at:

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Norsat LNB 7000 Series Specifications

Electrical Specifications

RF Input Frequency

- 7000A: 11.70 to 12.20 GHz
- 7000B: 12.25 to 12.75 GHz

Input VSWR

- 2.5 : 1 maximum

IF Output Frequency

- 7000A: 950 to 1450 MHz
- 7000B: 950 to 1450 MHz

Output VSWR

- 2.5 : 1 maximum, 75 Ohms

Gain

- 56 dB typical

Gain Stability

- 4 dB p-p maximum over frequency band
- 6 dB p-p maximum over temperature and frequency

Gain Flatness

- 1 dB p-p maximum per 27 MHz segment

1 dB Gain Compression Point

- +3 dBm minimum

Noise Figure

- 0.6 to 0.8 dB depending on model number

Image Rejection

- 45 dB minimum

Local Oscillator Frequency

- 7000A: 10.75 GHz
- 7000B: 11.30 GHz

Local Oscillator Stability

- ± 750 kHz to ± 900 kHz depending on model number

Local Oscillator Leakage

- -40 dBm maximum measured at waveguide input

Mechanical Specifications

Input Interface

- WR-75 Waterproof (Mated with matching flange and O-ring)

Output Interface

- F-Type, 75 Ohm, Female Waterproof

Size

- 74 (L) x 47 (W) x 47 (H) mm
- 2.9 x 1.9 x 1.9 in

Weight

- 200g / 7.1 oz

Paint / Colour

- White, Plastic Shell

Environmental Specifications

Operating Temperature

- -40 to +60 degrees Celsius

Thermal Gradient

- -40 degrees Celsius/Hour

Relative Humidity

- Up to 100% condensation and frost

Power Requirements

Input DC Voltage

- +15 to 24 V supplied through centre conductor of IF cable

Current Drain

- 100 mA maximum

