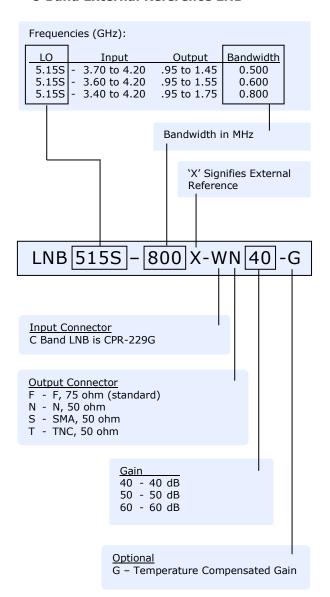


Orbital 3400X Series Modified C-Band External Reference LNB



40 to 60 dB gain, 250 to 800 MHz bandwidth

How to order an Orbital 3400X Series C-Band External Reference LNB



Orbital Flexibility:

Engineered using the highest quality components insures you from failure due to environmental extremes, such as arctic cold, Saharan heat, and rain-forest humidity. Our LNB is protected from man-made conditions such as shock, vibration, low power, over-voltage, surges, transients, and static discharge. Performance is consistent and replacements will match or exceed your original device. Market leading specifications yield some of the best phase noise on the market

"Mass-Custom" Solution

Orbital starts with a proven performance of our standard 3400X Series C-Band External Reference LNB, which is extremely well engineered. We then customize the mass produced LNB into what you want at 1/100 the cost of designing and building from scratch.

Orbital Features:

Custom Engineering

- Optimize Input and Output for superior VSWR
- Modify LO frequencies preserving phase noise and stability
- Modify and tune RF & IF filters for optimum response
- Tune for very low bandpass ripple
- Optimize Gain distribution for your system parameters

Environmental

- O ring sealed connectors for weather resistant operation
- Preserve the environmental engineering of the original LNB
- RoHS & REACH compliant

Options

- Change output connector, gain or LO frequency, etc
- External DC & 10 MHz connector: F, N, BNC or Feedthrough
- Temperature Compensated Gain Variation
- Full test documentation available

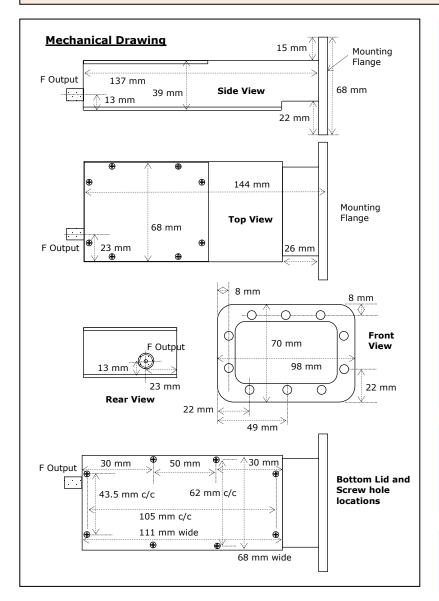
Sales contact:

sales@orbitalresearch.net

1 604 419-8585

www.orbitalresearch.net

Orbital 3400X Series C Band External Reference LNB Specs



Electrical Specifications

Input

Frequency: 3.4-4.2, 3.7-4.2, GHz Bandwidth: up to 800 MHz Noise Temp: 25 K typical

Ripple: ± 0.5 dB max /36 MHz segment

Input VSWR: 2.2:1 max 10 MHz input window:

-8 dBm to 0 dBm (for best phase

noise)

Output

Bandpass: 950 up to 1750 MHz Output VSWR: 1.5 : 1 typical at 75Ω

Gain: 40 to 60 dB

LO Stability: dependent on 10 MHz source Compression: +10dBm (standard bandwidth)

3rd Order

Intercept: +20 dBm (standard bandwidth)

Gain

Typical: 60 dB

Options: 40 dB, 50 dB

Ripple: 1dB p-p max per 36 MHz segment Temperature Compensated Gain Variation (optional)

 ± 0.75 dB max over frequency band

and -20 to +55°C

Power

DC Input: 12 to 24 VDC, 300 mA

Filtering: Transient, over and reverse voltage

protected

Mechanical Specifications

Size: 144(L) x 68(W) x 39(H) mm

(5.7 x 2.7 x 1.5 in)

Weight: 560 grams

Paint: Brilliant White Enamel

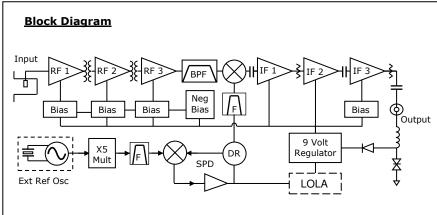
RoHs & REACH Compliant

Environmental Specifications

Operating Temp: -40 to +60 °Celsius

Relative Humidity: Up to 100% condensation &

frost



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