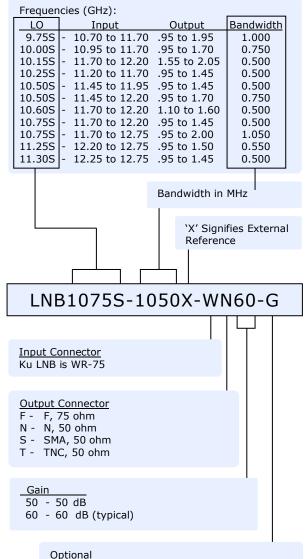


40 to 60 dB gain, 250 to 1050 MHz bandwidth, any Ku satellite

How to order an Orbital 5400X Series Ku External Reference modified LNB



G - Temperature Compensated Gain Flatness

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.

Orbital Features:

Custom Engineering

- Begin with the low noise figure of a proven quality LNB
- 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 INB

Options

- External DC connector –Feedthrough
- External 10 MHz Input Connector SMA
- Special Dual DC option via output coax and ext DC port
- Full test documentation available
- Temperature Compensation Gain Flatness
- RoHS & REACH compliant
- Can be ruggedized for Airborne application: DO160E B1 cabin rating and DO160E C1 fuselage

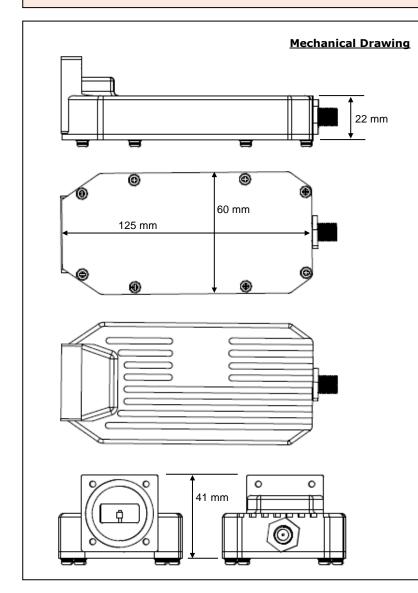
Sales contact:

sales@orbitalresearch.net

1 604 419-8585

www.orbitalresearch.net

Orbital 5400X Series Ku Ext Ref Modified LNB Specifications



Electrical Specifications 1

Input		
Frequency:	Various, over range:	
	10.7 to 12.75 GHz	
Bandwidth:	up to 1.05 GHz	
Noise Figure:	0.7 dB typical for standard band	
	0.8 dB typical for wide band	
Ripple:	±0.5 dB max /36MHz segment	
Input VSWR:	2.2 : 1 typical	
10 MHz input		
window:	-8 dBm to 0 dBm	
Output		
Bandpass:	950 up to 2100 MHz	
Output VSWR:	1.5 : 1 typical	
LO Stability:	dependent on 10MHz source	
Compression:	+10 dBm min (standard band),	
	+7 dBm min (wideband)	
3rd Order		
Intercept:	+20 dBm min., standard band	
C .	+17 dBm min., wideband	
Spurious:	Non-Signal related:	
	-95 dBm max over freq band	
	Signal related:	
Gain	-85 dBc max over freq band	
	60 dB	
Typical: Options:	40 dB, 50 dB	
Ripple:	1 dB p-p max per 36 MHz segment	
	ated Gain Variation (optional)	
± 0.75 dB max over Frequency		
	band and -20 to +55°C	

Power

DC Input: Filtering:

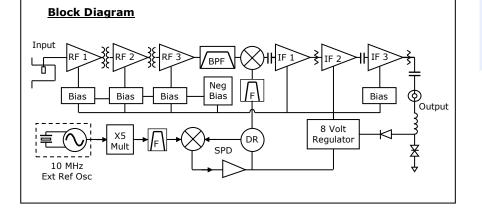
12 to 24 VDC, 220 mA nominal Transient, over and reverse voltage protected

Environmental Specifications

Operating Temp:	-40 to +60 °Celsius
Relative Humidity:	Up to 100% condensation
	and frost

Mechanical Specifications

Size:	125 x 60 x 41 mm
Weight:	350 grams
Paint:	Brilliant White Enamel
RoHs & REACH	Compliant



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