

Orbital Ku-Band LNB with Multiple Local Oscillators

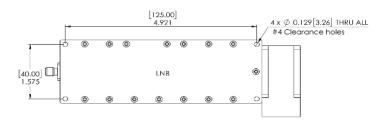


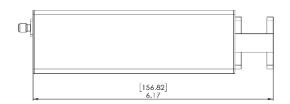
Our Ku-band low noise block downconverter (LNB) with multiple local oscillators is built for terrestrial and airborne satellite terminals. It lets you switch between different Ku frequency bands in the 10.7 GHz to 12.75 GHz range – and offers 1.05 GHz of bandwidth per LO. This LNB makes it possible to support several services with the same hardware.

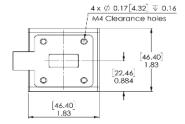
It offers:

- Local or remote Ku band switching and userselectable gain
- Exceptionally low phase noise for maximum data throughput
- Low noise figure <0.8 dB for excellent signal to noise ratios
- Flat frequency response for higher-order modulation schemes
- Options for extreme temperatures
- External reference or PLL variants
- Airborne version available for in-flight connectivity

The Orbital Ku-Band LNB with Multiple Local Oscillators is used for both military and commercial satellite communication applications, including large earth stations and SATCOM-on-the-Move (SOTM). Aeronautical versions are available to help carriers meet rising demand for bandwidth and reliable inflight broadband connectivity.







MODEL NUMBER: Ku MULTILO EXT REF



FREQUENCY RANGE	
RF Frequency Band (GHz)	10.7 to 12.75
IF Frequency Band (MHz)	950 to 2150
Bandwidth (MHz)	1050 max
Local Oscillator (GHz)	9.75 to 11.30
Noise Figure (dB)	0.8 @ 25C
LO Stability	Locked to external reference
LO Phase Noise	Locked to external reference
Band Switching	Voltage
10 MHz REFERENCE	
Insertion	
11130111011	via input connector
Input Level	-8 dBm to +8 dBm
Input Level	
Input Level VSWR	-8 dBm to +8 dBm
Input Level VSWR Input	-8 dBm to +8 dBm 1.4:1 nominal with isolator
Input Level VSWR Input Output	-8 dBm to +8 dBm 1.4:1 nominal with isolator
Input Level VSWR Input Output GAIN	-8 dBm to +8 dBm 1.4:1 nominal with isolator 1.3:1 nominal

POWER ¹		
Current Draw	350 mA at 18 VDC	
Input Voltage Range	+17 to +24 VDC	
MECHANICAL		
Weight (grams)	675 without isolator	
Length (mm)	157 mm/6.17 inches	
Width (mm)	47 mm/1.83 inches	
Depth (mm)	47 mm/1.83 inches	
Input Connector	WR-75	
Output Connector	SMA, N	
OPTIONS		
Push button or RS 422 band switching		
PLL versions available		
Gain modifications, 40 and 50 dB		
Custom LO's available		
Temperature compensated gain +/-0.75 dB over freq and -20C to +55C		
Extended temperature ranges		
Airborne version available		
PUSH BUTTON OPTION		

OTHER SPECS	
Image Rejection	> 40 dBc max
1 dB Compression (dBm)	+ 13 dB min
OIP3 (dBm)	+25 dBM min

+/- 0.25 dB over 24 hrs @ 25C

Stability

ENVIRONMENTAL	
Operating Temp	-40°C to +65°C
Non-Operating Temp Range	-50C to +80C
Humidity	100% condensing
MTBF	> 125,000 hours
Standards	MIL-STD-810F for vibration



Please contact Orbital Research for ordering information: sales@orbitalresearch.net