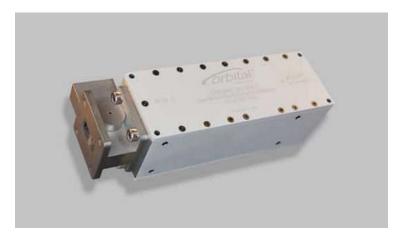


Orbital Ku-Band LNB with Fixed Local Oscillator

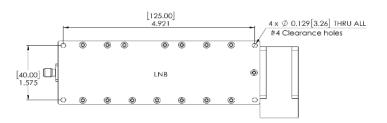


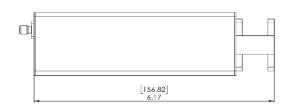
This Ku-band LNB is tuned to the exact frequency you require. It provides user bandwidth of up to 1.05 GHz in the 10.7 GHz to 12.75 GHz range – and offers exceptional performance for both commercial and military satellite communication (SATCOM) applications. 2.05 GHz wideband output versions are also available.

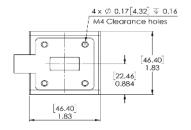
It offers:

- Exceptionally flat frequency response
- High data throughput and low bit error rate
- External isolator for impedance matching and maximum signal transfer
- Options for high temperatures and temperature-compensated gain
- External reference or PLL variants
- Airborne version available for in-flight connectivity

The LNB supports global Ku frequency bands across all ITU regions as well as commercially available Ku High Throughput Satellites (HTS). It delivers the gain, phase noise and linearity needed to handle higher-order modulation schemes in the GEO, MEO and LEO satellite markets.







MODEL NUMBER: Ku FIXED LO 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)	16.35 to 20.25
Noise Figure (dB)	0.8 @ 25C
LO Stability	Locked to external reference
LO Phase Noise	Locked to external reference
10 MHz REFERENCE	
Insertion	via input connector
Input Level	-8 dBm to +8 dBm
VSWR	
Input	1.4:1 nominal with isolator
Output	1.3:1 nominal
GAIN	
Gain (dB)	55 nominal
Flatness	+/- 2.5 over frequency
Ripple	+/- 0.5 dB over any 10 MHz
Stability	+/- 0.25 dB over 24 hrs @ 25C
OTHER SPECS	
Image Rejection	> 40 dBc max
1 dB Compression (dBm)	+ 13 dB min
OIP3 (dBm)	+25 dBM min
ENVIRONMENTAL	
	-40°C to +65°C
Operating Temp	-40 C to +65 C
Operating Temp Non-Operating Temp Range	-50C to +80C
Non-Operating Temp Range	-50C to +80C

POWER		
Current Draw	350 mA at 18 VDC	
Input Voltage Range	+17 to +24 VDC	
MECHANICAL		
Weight (grams)	675 without isolator	
Length (mm)	157mm/6.17 inches	
Width (mm)	47mm/1.83 inches	
Depth (mm)	47mm/1.83 inches	
Input Connector	WR-75	
Output Connector	SMA, N	
OPTIONS		
PLL versions		
Gain modifications, 40 and 50 dB		
Temperature compensated gain +/-0.75 dB over freq and -20C to +55C		
Custom LO's available		
Wideband 2.05 GHz output versions available		
Extended temperature ranges		
Airborne version available		

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