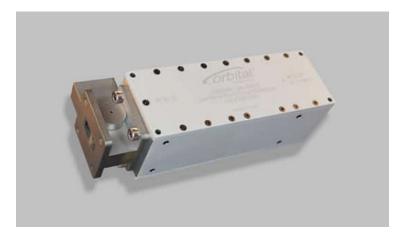


Orbital Ku-Band LNB with Multiple Local Oscillators

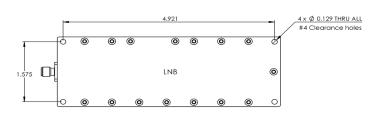


Our Ku-band low noise block downconverter (LNB) with multiple local oscillators is built for terrestrial and airborne satellite terminals. It lets you switch between different Ku frequency bands in the 10.7 GHz to 12.75 GHz range – and offers 1.05 GHz of bandwidth per LO. This LNB makes it possible to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

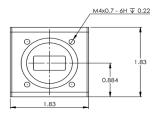
It offers:

- 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

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		ENVIRONMENTAL	
RF Frequency Band (GHz)	10.7 to 12.75	Operating Temp	-40°C to +65°C
IF Frequency Band (MHz)	950 to 2750	Non-Operating Temp Range	-50C to +80C
Bandwidth (MHz)	1050 max	Humidity	100% condensing
Local Oscillator (GHz)	9.75, 11.30, 10.75	MTBF	> 125,000 hours
Noise Figure (dB)	0.8 @ 25C	Standards MIL-STD-810F for vibration, IP67 RoHS and REACH	
LO Stability	Locked to external reference	KUNS AHU KEACH	
LO Phase Noise	Locked to external reference	POWER	
Band Switching	Voltage	Current Draw	350 mA at 18 VDC
10 MHz REFERENCE		Input Voltage Range	+17 to +24 VDC
Insertion	via input connector	MECHANICAL	
Input Level	-8 dBm to +8 dBm	Weight (grams)	675 without isolator
		Length (mm)	132
VSWR		Width (mm)	47
Input	1.4:1 with isolator	Depth (mm)	47
Output	1.3:1 typical	Input Connector	WR-75
GAIN		Output Connector	SMA, N
Gain (dB)	60	OPTIONS	
Flatness	+/- 0.5 over 10 MHz	Push button or RS 422 band switching	
Ripple	+/- 2.5 dB over 1 GHz	PLL versions	
Stability	+/- 3.0 dB over temperature	Gain modifications, 40 and 50 dB	
OTHER SPECS		Temperature compensated gain +/-0.75 dB over freq and -20C to +55C	
Image Rejection	> 40 dBc max	Extended temperature ranges	
1 dB Compression (dBm)	+ 13 dB min		
OIP3 (dBm	25 dBM min		
Overdrive Power Level (Non- Damaging)	-20 dBm	Plance contact Orbital	Doconych for ordoring

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