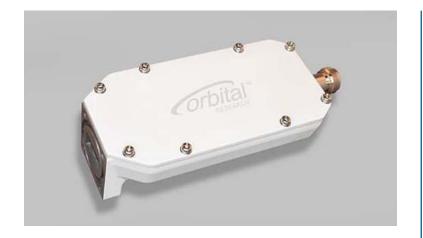
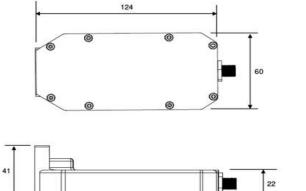
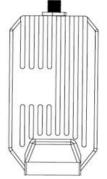


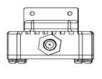
Orbital 5300 Off-the-Shelf Ku-Band PLL LNB

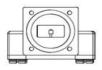


The Orbital 5300 Ku-Band Phase Locked Loop (PLL) LNB is built for applications that require high performance but not the ultra-low phase noise provided by an external 10 MHz reference. This economical, off-the-shelf LNB offers 60 dB gain, 500 to 750 MHz bandwidth, and frequency ranges from 10.95 GHz to 12.75 GHz. It's perfect for applications with less demanding phase noise requirements – such as consumer video, broadband, or DVB-S2 and DVB-S2X waveforms.









RoHS & REACH Compliant

MODEL NUMBER: 5300 SERIES



FREQUENCY RANGE	
RF Frequency Band (GHz)	10.95 to 12.75
IF Frequency Band (MHz)	950 to 1700
Bandwidth (MHz)	500 or 750
Local Oscillator (GHz)	10.00, 10.75, 11.30
Noise Figure (dB)	0.7 nominal, 0.8 for wideband (1GHz)
LO Stability	+/- 10 kHz over temp
LO Phase Noise	-80 dBc @ 1 kHz

VSWR	
Input	2.2:1 nominal
Output	1.5:1 nominal

GAIN	
Gain (dB)	60 nominal
Flatness	+/- 1.5 dB over the band
Ripple	+/- 1.0 dB over any 36 MHz
Stability	+/- 2 dB over temp & freq

OTHER SPECS

1 dB Compression (dBm)	+10	
OIP3 (dBm)	+20	

ENVIRONMENTAL

Operating Temp	-40 to +60 C
Humidity	100% condensing
MTBF	> 175,000 hours
Standards	RoHS and REACH

POWER¹

Current Draw	200 mA
Input Voltage Range	+12 to +24 VDC

MECHANICAL	
Weight (grams)	350
Length (mm)	125
Width (mm)	60
Depth (mm)	41
Input Connector	WR-75
Output Connector	F, N

OPTIONS

Gain modifications, 40 and 50 dB

Custom LO's available

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