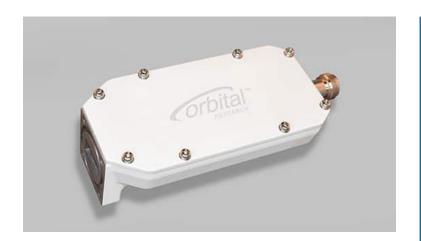
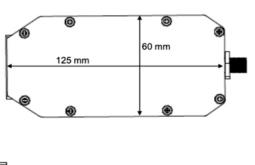


Orbital 5400X Enhanced External Reference Ku-Band LNB

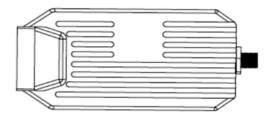


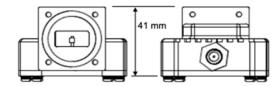
This external reference Ku-band LNB is enhanced to meet demanding, customer-specific SATCOM requirements such as superior gain flatness, excellent VSWR performance, or extreme temperatures. It offers extended bandwidth up to 1050 MHz – and is available in a variety of wideband Ku frequency ranges.

- Customizable LNB for unique installations
- External 10 MHz reference
- Wideband Ku frequency ranges
- Excellent noise figure and gain flatness
- Superior VSWR performance
- Extended temperature ranges









MODEL NUMBER: 5400X ENHANCED SERIES



FREQUENCY RANGE	
RF Frequency Band (GHz)	10.7 to 12.75
IF Frequency Band (MHz)	950 to 2100
Bandwidth (MHz)	1050 max
Local Oscillator (GHz)	9.75, 10.75, 11.30
Noise Figure (dB)	0.7 nominal, 0.8 for wideband
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 0 dBm
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	
Image Rejection	> 45 dBc max
1 dB Compression (dBm)	+10 dB at 750 MHz, +7 at 1 GHz
OIP3 (dBm)	+20 dB at 750 MHz, +17 at 1 GHz
ENVIRONMENTAL	
Operating Temp	-40°C to +60°C
Humidity	100% condensing
MTBF	> 175,000 hours
Standards	RoHS and REACH

POWER ¹		
Current Draw	220 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, SMA, TNC	
OPTIONS		
Gain modifications, 40 and 50 dB		
Custom LO's available		
Temperature compensated gain +/-0.75 dB over freq and -20C to +55C		

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