

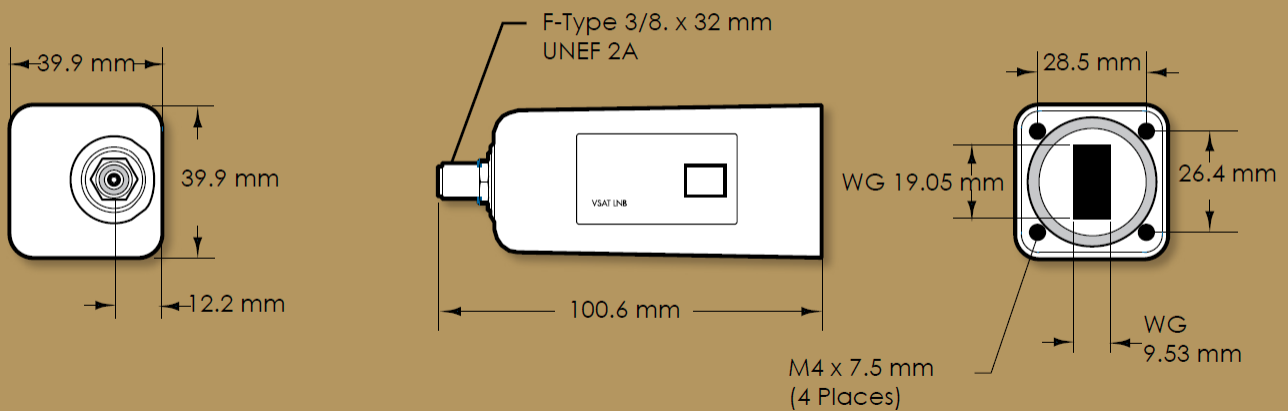


GE-LC-FKUPLLXXX
Full Ku-Band PLL VSAT LNB

- Low Cost PLL LNB
- Full Ku-Band Frequency Range in Two Switchable Bands
- Band Switching with 22 kHz Tone
- PLL-Type Local Oscillator with Internal +/- 25 ppm Reference
- Input Transmit Reject Filtering
- Compact, Lightweight Form Factor
- O-ring, Hardware Included
- CE Compliant
- RoHS Compliant



Dimensions



4607 Lakeview Canyon Rd, Suite# 900 Westlake Village, CA 91361-

Phone: 818-991-9794 - Fax: 818-991-9896 - Website: www.satcoms.com



SPECIFICATIONS

GE-LC-FKUPLLXXX

Full Ku-Band PLL VSAT LNB

Electrical Specification

Parameter		Minimum	Typical	Max	Unit	Note
RF Input Frequency Range	Low-band	10.70		11.70	GHz	
	High Band	11.70		12.75	GHz	
IF Output Frequency Range	Low-band	950		1950	MHz	
	High Band	1100		2150	MHz	
Local Oscillator Frequency	Low-band		9.75		MHz	Nominal
	High Band		10.60		MHz	
Local Oscillator Tolerance	Overall			± 25	ppm	From Nominal
Local Oscillator Integrated Phase Noise (SSB)	@ 1 KHz			-75	dBc/Hz	
	@ 10 KHz			-76	dBc/Hz	
	@ 100 KHz			-86	dBc/Hz	
	@ 1 MHz			-104	dBc/Hz	
Local Oscillator Integrated Phase Noise	1KHz- 10 MHz		1.6	2.0	°	DSB RMS Phase Jitter
Noise Figure @ 25° C	w/o OMT-TRF		0.8	1.1	dB	
Conversion Gain		52	57	63	dB	
Tx Signal Immunity Conversion (change relative to nominal)	Conversion Gain			0.2	dB	With Tx signal from 13.75-14.5 GHz
	Noise Figure			0.2	dB	At -20 dBm on the input
In-band Gain Variation	Overall			6	dB	Max-Min
	Any 36 MHz			1.5	dB	
	Any 500 MHz			5.0	dB	
Image Band Rejection		35			dB	
IF Output IP3		+10			dBm	Carrier Spacing > 5 MHz
IF Output P1dB		3			dBm	
IF Output Spurious	In-band			-40	dBc	@ IF O/P carrier = -15 dBm in 10 kHz
	Out-of-Band			-25	dBm	
IF Output Impedance			75		Ohm	
IF Output Return Loss		10				
IF Output Connector						F-Type Female
Control Tone Frequency		18		26	KHz	
Control Tone Level	Low-band	0		100	mV	PP
	High Band	400	600	800	mV	
Supply Voltage		10		24	V	
Supply Current				100	mA	
RF Input Connector						WR-75 Flange, grooved

General Specification

Parameter		Minimum	Typical	Max	Unit	Note
Weight				170	g	
Operating Temperature		-40		+55	°C	
Moisture/Humidity Protection			IP67			

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