

PRODUCT
SPECIFICATIONS



RS1Z30x Ku-Band VSAT PLL LNB

Low Cost PLL LNB

Full Range of Frequency Bands Available

PLL-Type Local Oscillator with Internal +/- 25 ppm Reference

Input Transmit Reject Filtering

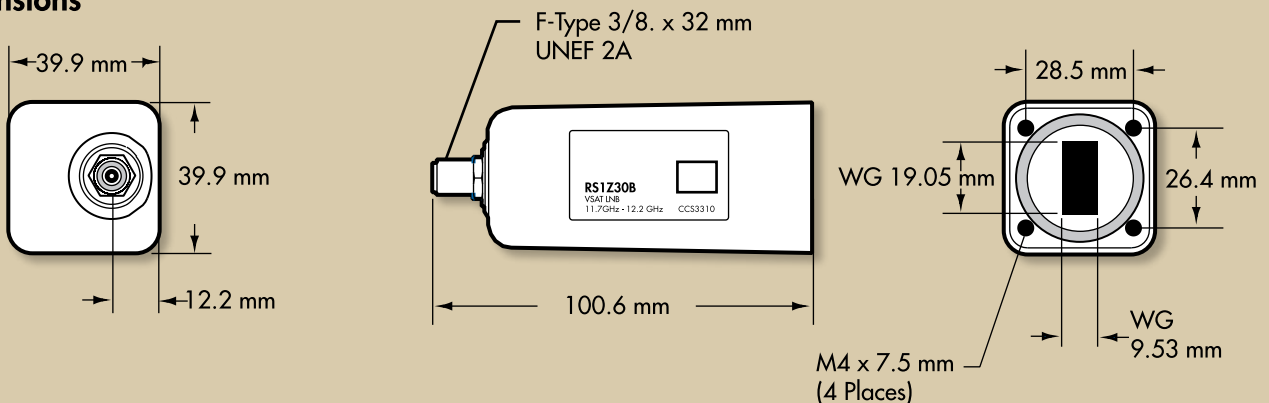
Compact, Lightweight Form Factor

O-ring, Hardware Included

CE Compliant

RoHS Compliant

Dimensions



SPECIFICATIONS

RS1Z30x

Ku-Band PLL VSAT LNB

Internal Reference LNB

Parameter		Minimum	Typical	Maximum	Unit	Note
RF Input Frequency Range	RS1Z30A	10.95		11.70	GHz	
	RS1Z30B	11.70		12.20	GHz	
	RS1Z30C	12.25		12.75	GHz	
IF Output Frequency Range	RS1Z30A	950		1700	MHz	
	RS1Z30B	950		1450	MHz	
	RS1Z30C	950		1450	MHz	
Local Oscillator Frequency	R					
	S1Z30A		10.00		MHz	nominal
	RS1Z30B		10.75		MHz	
	RS1Z30C		11.30		MHz	
Local Oscillator Stability				± 25	ppm	over operational conditions and lifetime
Local Oscillator Integrated Phase Noise, 100Hz - 1 MHz			2.0	2.5	Deg K	DSB rms phase jitter
Noise Figure	RS1Z30A		0.7	0.8	dB	over frequency, operational conditions, and lifetime
	RS1Z30B		0.7	0.8	dB	
	RS1Z30C		0.8	1.0	dB	
Conversion Gain		50		60	dB	
	in-band variation			5	dB	max-min
Tx Signal Immunity						Tx signal between 13.75-14.5 GHz @ 20 dBm on the input
	Gain change relative to normal operation			0.2	dB	
	Noise Figure change relative to normal operation			0.2	dB	
Image band rejection		40			dB	
IF Output P1dB		3			dBm	
IF Output Impedance			75		Ohm	
IF Output Return Loss		10			dB	
Supply Voltage		10.5		24.0	V	
Supply current				140	mA	
RF Input Connector						WR-75 flange, grooved (O-ring included)
IF Output Connector						F-type female (internally sealed)

General Specifications

Parameter	Minimum	Typical	Maximum	Unit	Note
Weight			170	g	
Operating Temperature	-40		+55	Deg C	
Moisture/humidity protection					IP67 rated



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