

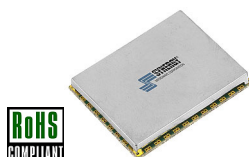
FIXED FREQUENCY SYNTHESIZER

SURFACE MOUNT MODEL: FCPH3710-10

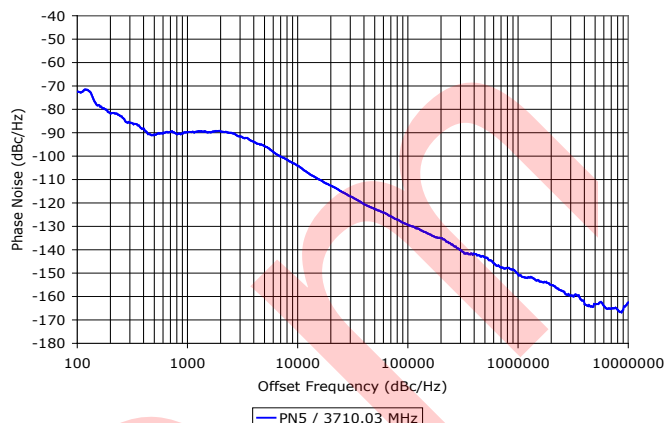
3710 MHz

FEATURES:

- ▶ Exceptionally Low Phase Noise
- ▶ No Programming Required
- ▶ Lead Free - RoHS Compliant
- ▶ Patented REL-PRO® Technology
- ▶ Small Size, Surface Mount



Phase Noise



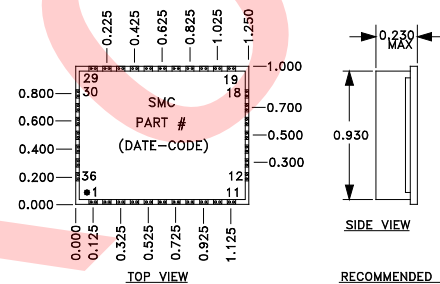
SPECIFICATIONS (Rev. B 03/28/11)

Frequency	3710 MHz		
Reference Input Frequency	10 MHz		
Reference Input Voltage	1.0 V p-p to 3.3 V p-p		
Bias Voltage	Vcc	V (Vdc)	I (mA Max.)
	Digital	+5	65
	VCO	+8	35
	VTune	+8	10
Output Power	+4.5 dBm ±2dB		
Spurious & Ref. Sideband	90 dBc (Typ.)		
Harmonic Suppression	29 dBc (Typ.)		
Settling Time	90 mSec (Max.)		
Output Impedance	50 Ohms (Nom.)		
Lock Detect Indicator	CMOS		
Typical Phase Noise	Offset		Phase Noise
	@ 1 kHz	-90 dBc/Hz	
	@ 10 kHz	-102 dBc/Hz	
	@ 100 kHz	-129 dBc/Hz	
Operating Temperature Range	-40 to +85 °C		

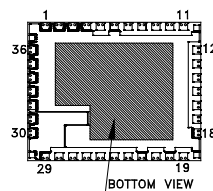
Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage (Digital)	+5.25 V
Bias Voltage (Tune)	+12.0 V
Bias Voltage (VCO)	+8.5 V
DC Voltage Applied to RF Out	$\pm$ 25 V

Package # 197LF



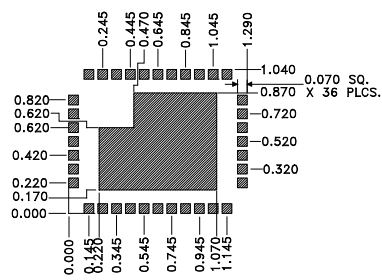
REL-PRO® PATENT NO. 7,612,296



OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

PACKAGE MOUNTING: SEE APPLICATION NOTES AN7200 & AN7300

RECOMMENDED PCB LAYOUT



TOLERANCES ON THREE DECIMAL PLACES= $\pm$ 0.015

Port Configuration

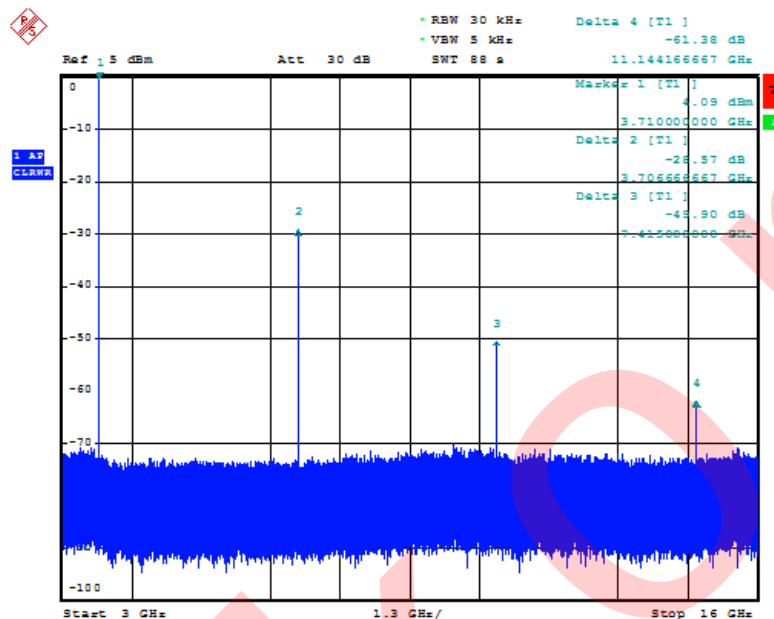
Pin 5 - RF Out	Pin 25 - Vcc (VCO)	All Others - Ground
Pin 7 - Lock Detect	Pin 27 - Vcc (VTune)	NC - No Connection
Pin 21 - Ref. In	Pin 8 to 19, 24, 26, 28 - NC	
Pin 23 - Vcc (Digital)		

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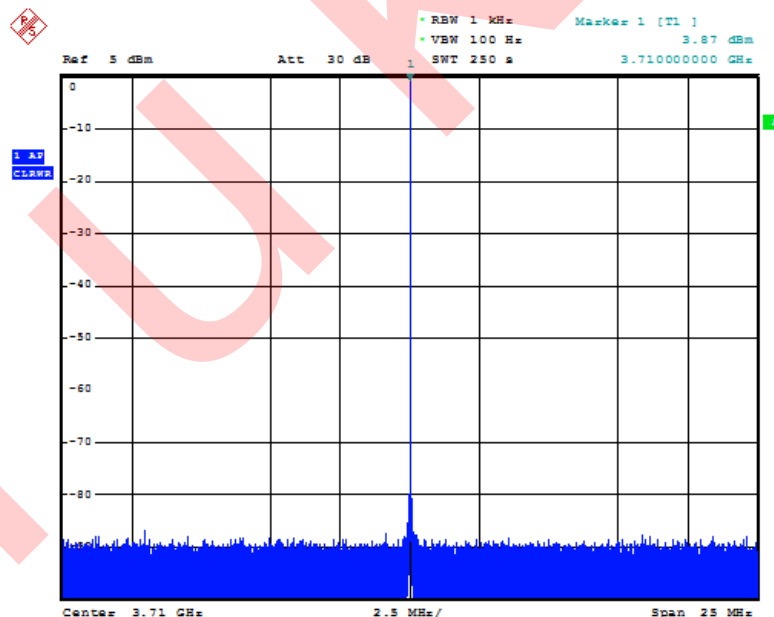
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3710 MHz

HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS