

FIXED FREQUENCY SYNTHESIZER

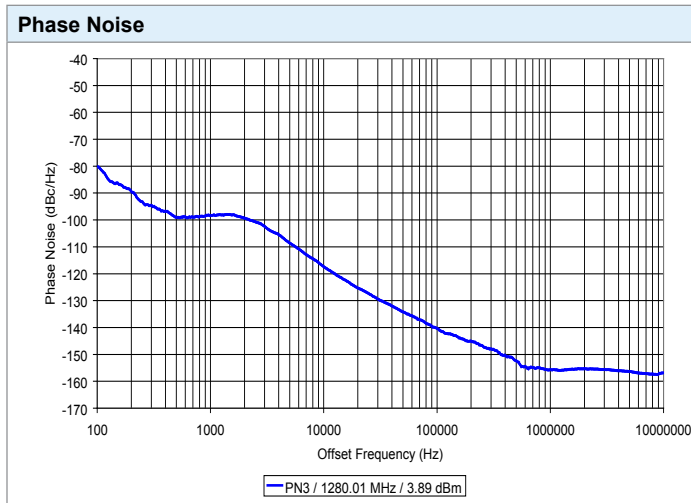
SURFACE MOUNT MODEL: FCPH1280-10

FIXED FREQUENCY

1280 MHz

FEATURES:

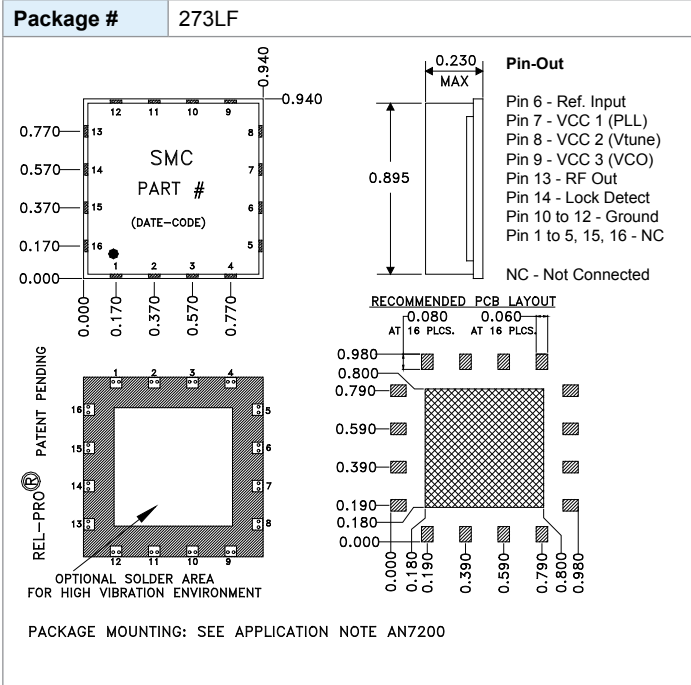
- ▶ Exceptionally Low Phase Noise
- ▶ No Programming Required
- ▶ Lead Free - RoHS Compliant
- ▶ Patent Pending REL-PRO® Technology
- ▶ Small Size, Surface Mount



SPECIFICATIONS (Rev. C 07/10/08)

Frequency	1280 MHz		
Reference Input Frequency	10 MHz		
Reference Input Voltage	1 V p-p to 3.3 V p-p		
Bias Voltage	Vcc	V (Vdc)	I (mA Max.)
	Digital	+5	15
	Vtune	+8	10
	VCO	+8	35
Output Power	+5 dBm ±2dB (Typ.)		
Spurious & Ref. Sideband	90 dB (Typ.)		
Harmonic Suppression	15 dB (Typ.)		
Settling Time	90 mSec (Max.) *		
Output Impedance	50 Ohms		
Typical Phase Noise	Offset	Phase Noise	
	@ 1 kHz	-98 dBc/Hz	
	@ 10 kHz	-117 dBc/Hz	
	@ 100 kHz	-140 dBc/Hz	
Lock Detect Indicator	CMOS 3.3 V		
Operating Temperature Range	-40 to +85 °C		

* From stable power on to stable lock detect



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	±25 V

This product is manufactured under one or more of the following patents: Approved: 5,180,810; 5,122,621; 5,390,346; 5,416,446; 5,630,754; 5,805,431; 6,325,623; 6,856,573; 7,088,189; 7,180,381; 7,185,591; 7,262,670; 7,263,642; 7,292,113
 Pending: 65/48,307; 60/501,371 & 65/581,796; 60/527,957 & 65/536,675; 60/263,481; 60/564,173; 60/580,083; 60/601,822; 60/605,979; 2V3126A034;
 11/258768; 60/622,485 & 66/710219; 10/607,325; 60/736901; 60/732787



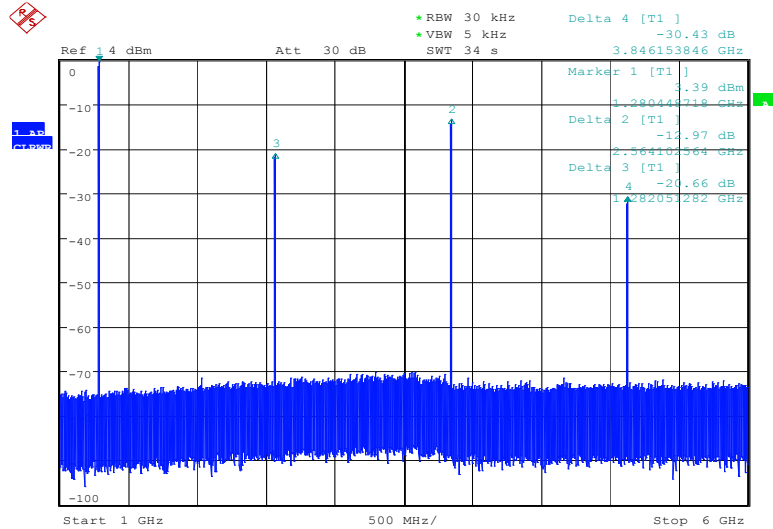
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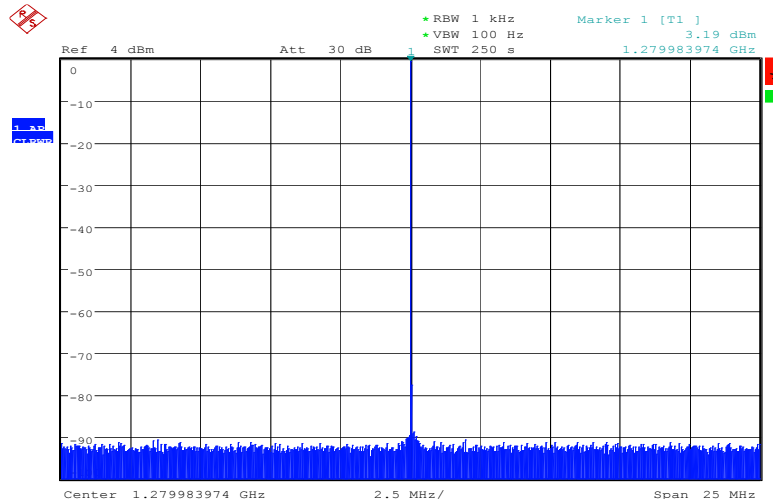
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HARMONIC SUPPRESSION



REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS

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 Pending: 66/483,075; 60/501,371 & 66/561,756; 60/527,957 & 66/536,675; 60/263,481; 60/564,173; 60/580,083; 60/661,822; 60/605,979; EV31268034;
 RU258768; 60/622,485 & 66/710,119; RU60732560/736901; 60/732787

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