

# FIXED FREQUENCY SYNTHESIZER

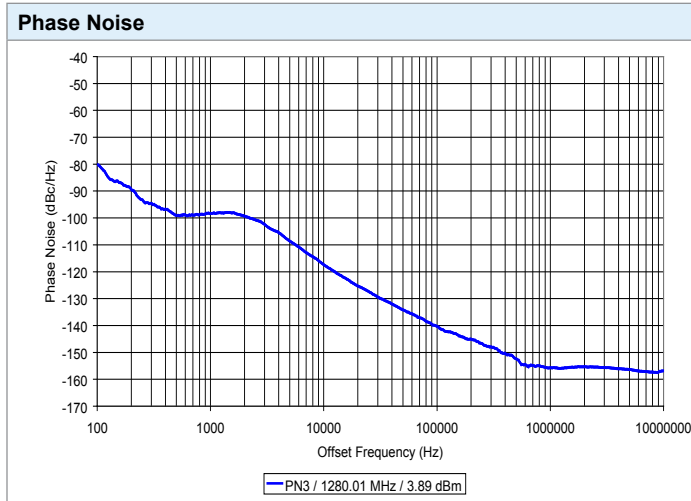
## SURFACE MOUNT MODEL: FCPH1280-10

**FIXED FREQUENCY**

**1280 MHz**

**FEATURES:**

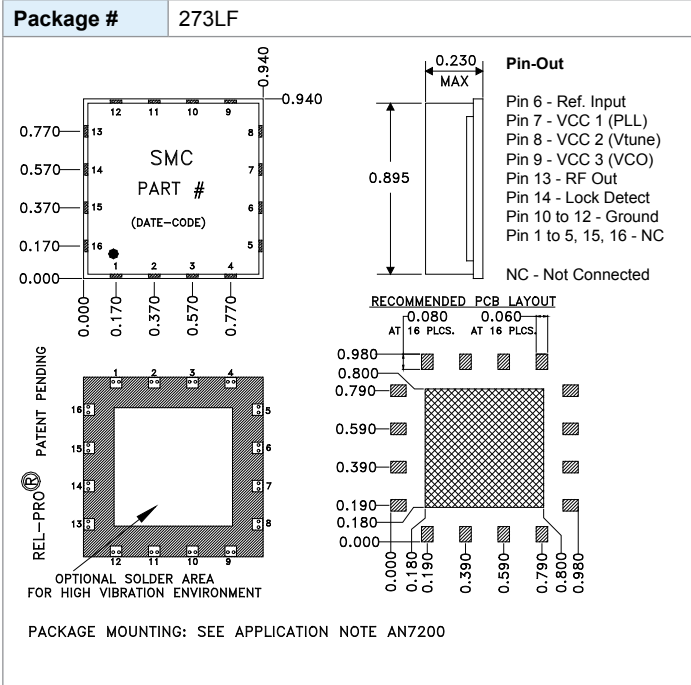
- ▶ Exceptionally Low Phase Noise
- ▶ No Programming Required
- ▶ Lead Free - RoHS Compliant
- ▶ Patent Pending REL-PRO® Technology
- ▶ Small Size, Surface Mount



**SPECIFICATIONS (Rev. C 07/10/08)**

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

\* From stable power on to stable lock detect



**Absolute Maximum Ratings**

<b>Storage Temp. Range</b>	-55 to +125 °C
<b>Bias Voltage (Digital)</b>	+5.25 V
<b>Bias Voltage (Tune)</b>	+12.0 V
<b>Bias Voltage (VCO)</b>	+8.5 V
<b>DC Voltage Applied to RF Out</b>	±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; 6,806,573; 7,088,189; 7,180,381; 7,185,591; 7,262,670; 7,265,642; 7,292,113  
 Pending: 65/48,307; 60/501,371 & 65/581,795; 60/527,957 & 65/536,675; 60/263,481; 60/564,173; 60/580,083; 60/601,822; 60/605,979; EV3136A034;  
 11/25/768; 60/622,485 & 65/710,112; 10/607,325/607,350/1; 60/732,737



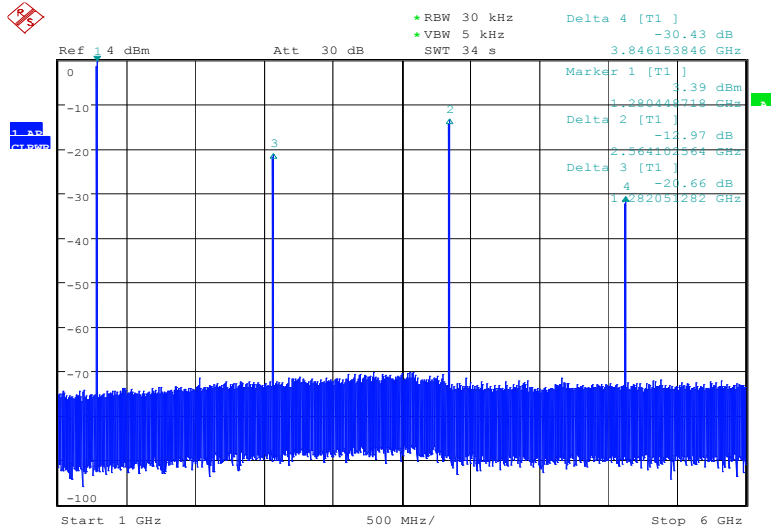
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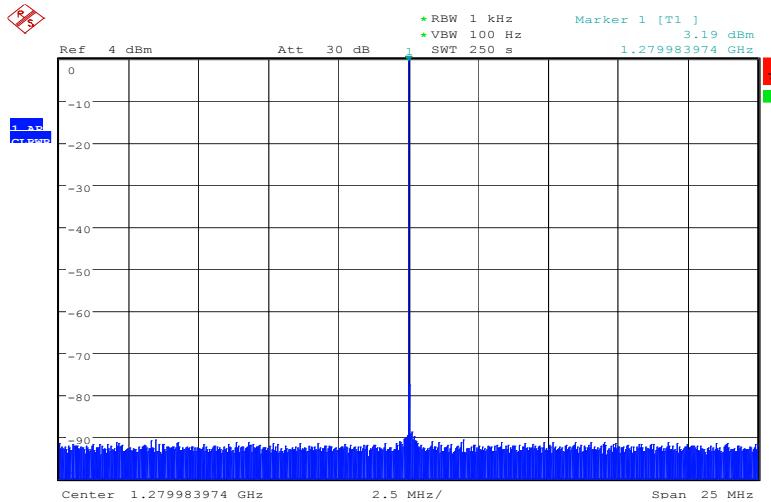
FIXED FREQUENCY

1280 MHz

### HARMONIC SUPPRESSION



### REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS

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 Pending: 66/483,075; 60/501,371 & 66/501,756; 60/527,957 & 66/528,675; 60/263,481; 60/564,173; 60/580,083; 60/607,822; 60/605,979; EV31268034;  
 RU258768; 60/622,485 & 66/710,119; RU60732560/736901; 60/732787

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