

# INTELLIGENT INTERACTIVE SYNTHESIZER

## SURFACE MOUNT MODEL: FSW60170-50

WIDE BANDWIDTH

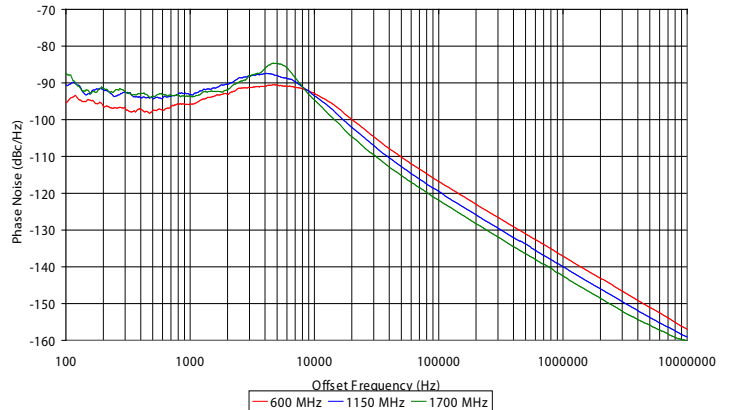
600 - 1700 MHz

**FEATURES:**

- ▶ Exceptionally Low Phase Noise
- ▶ Interactive Communication
- ▶ Standard Programming Interface
- ▶ Ultra Wide Tuning Range
- ▶ Lead Free - RoHS Compliant
- ▶ Patent Pending REL-PRO® Technology
- ▶ Small Size, Surface Mount



**Phase Noise**

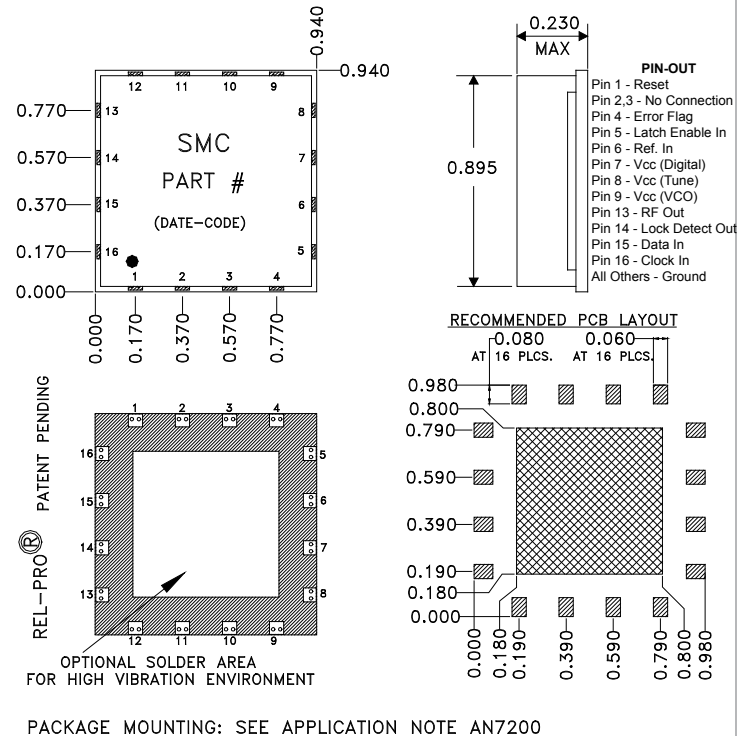


**SPECIFICATIONS (Rev. M 12/09/08)**

<b>Frequency</b>	600 - 1700 MHz		
<b>Step Size</b>	500 kHz		
<b>Reference Input Frequency</b>	10 MHz		
<b>Reference Input Voltage</b>	1.0 V p-p to 3.3 V p-p		
<b>Bias Voltage</b>	Vcc	V (Vdc)	I (mA Max.)
	Digital	+5	10
	VCO	+5	35
	Tune	+25	5
<b>Output Power</b>	0 dBm (Min.)		
<b>Spurious</b>	-85 dBc (Typ.)		
<b>Harmonics</b>	-12 dBc (Typ.)		
<b>Settling Time</b>	10 mSec (Max.)*		
<b>Output Impedance</b>	50 Ohms (Nom.)		
<b>Typical Phase Noise</b>	Offset	Phase Noise	
	@ 1 kHz	-90 dbc/Hz	
	@ 10 kHz	-90 dbc/Hz	
	@ 100 kHz	-117 dbc/Hz	
<b>Operating Temperature Range</b>	-40 to +85 °C		
<b>Programming</b>	See Application Note: AN7100		

\* From the rising edge of LE to stable lock detect

**Package #** 273LF



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This product is manufactured under one or more of the following patents: Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,650,754; 5,805,431; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113  
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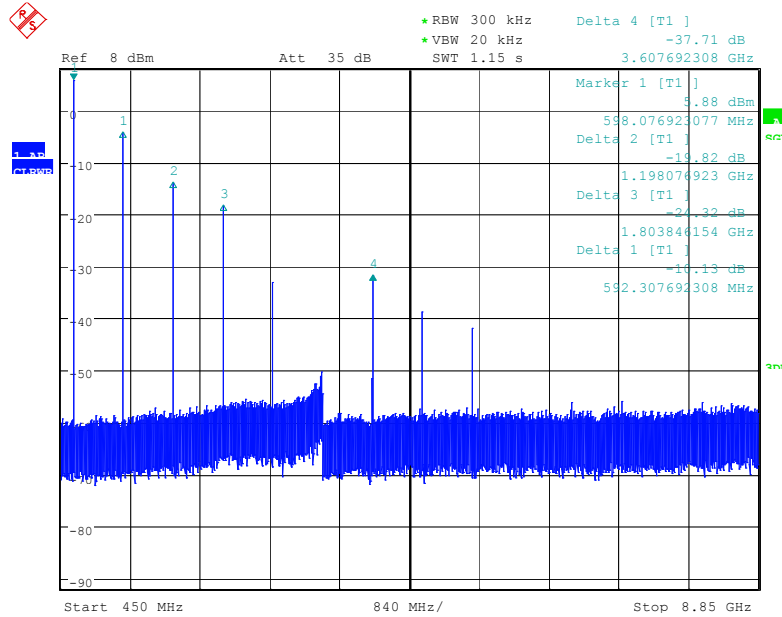
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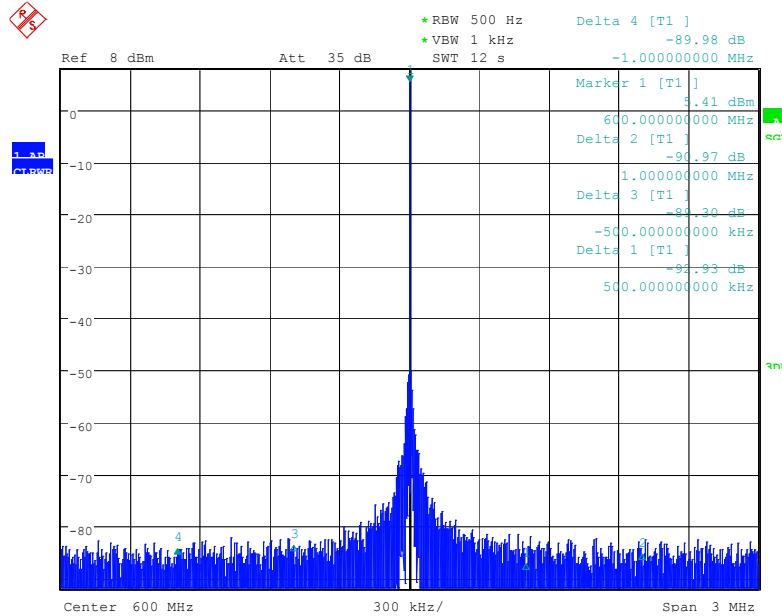
WIDE BANDWIDTH

600 - 1700 MHz

### HARMONIC SUPPRESSION



### REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS

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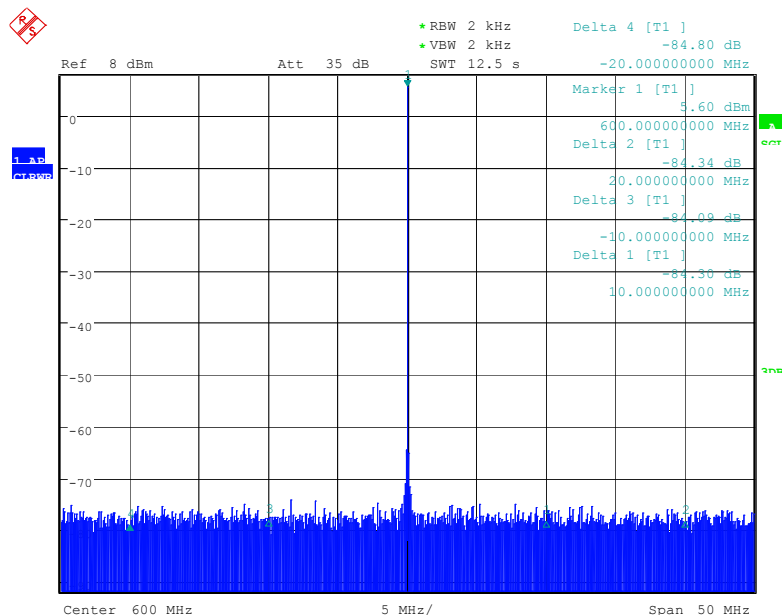
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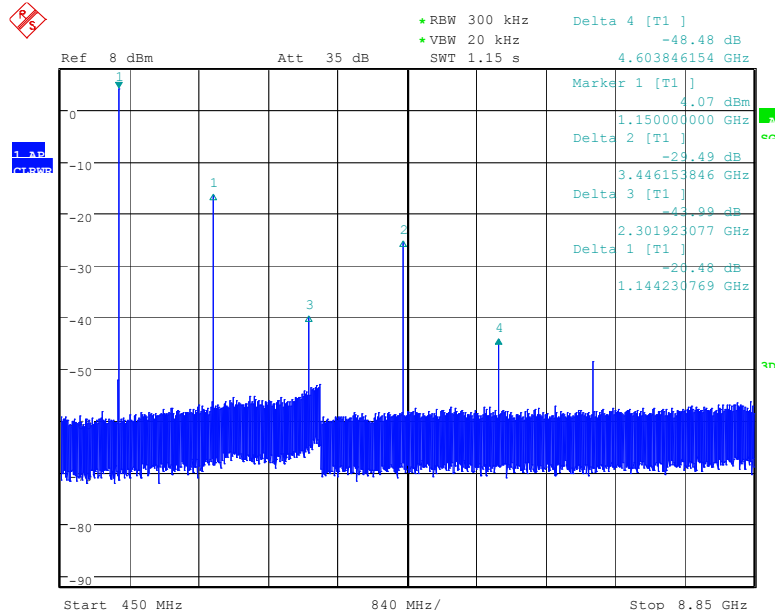
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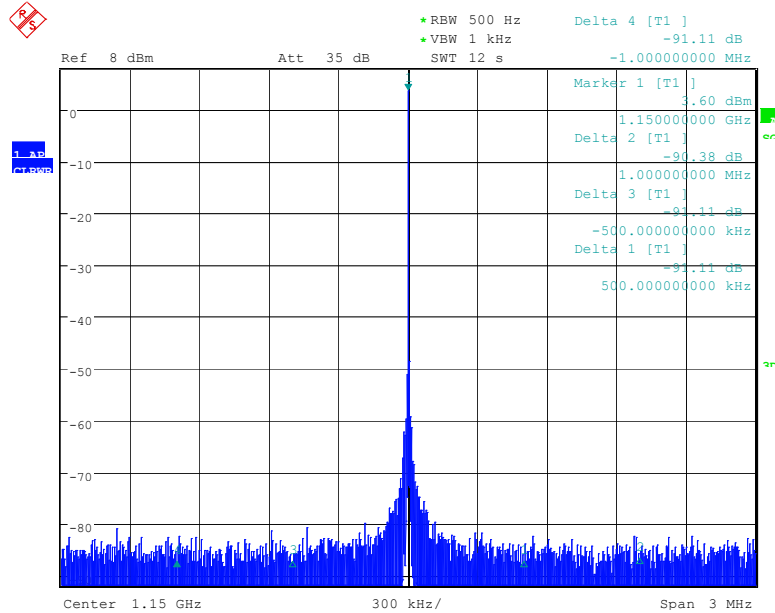
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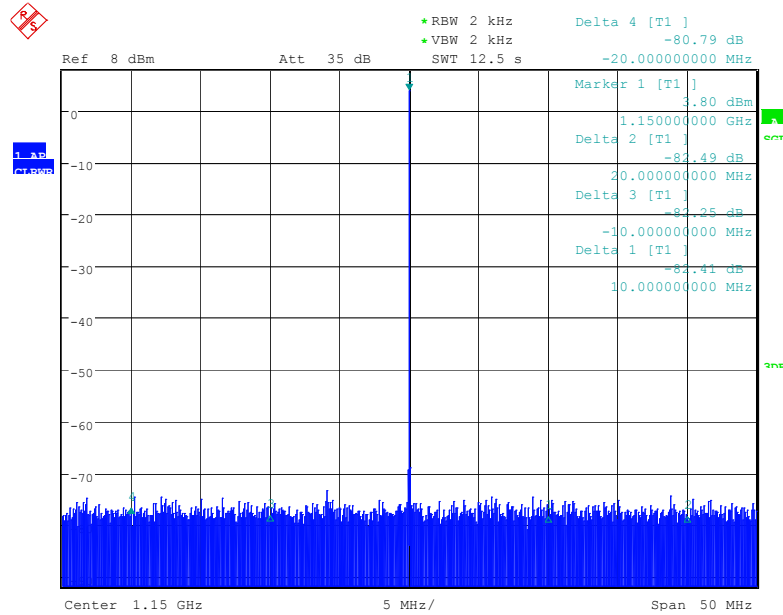
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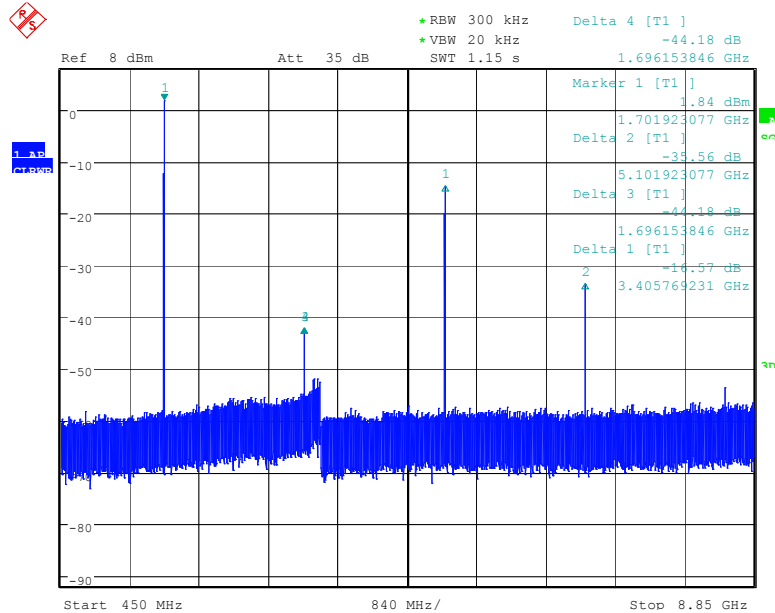
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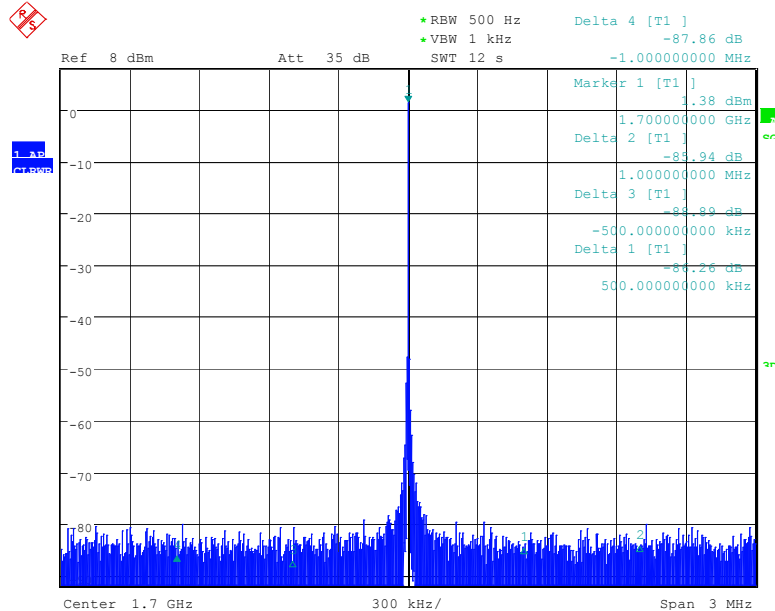
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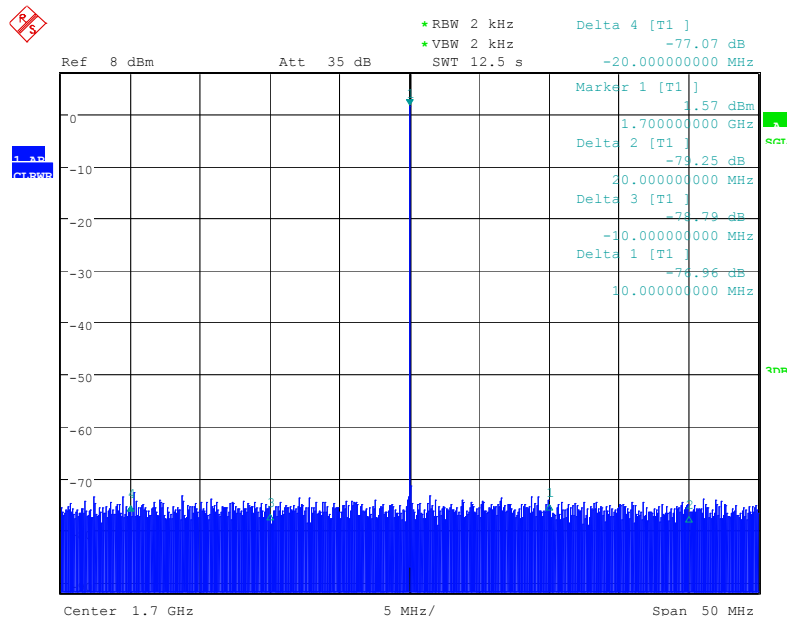
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