

INTELLIGENT INTERACTIVE SYNTHESIZER

SURFACE MOUNT MODEL: FSW1545-50

WIDE BANDWIDTH

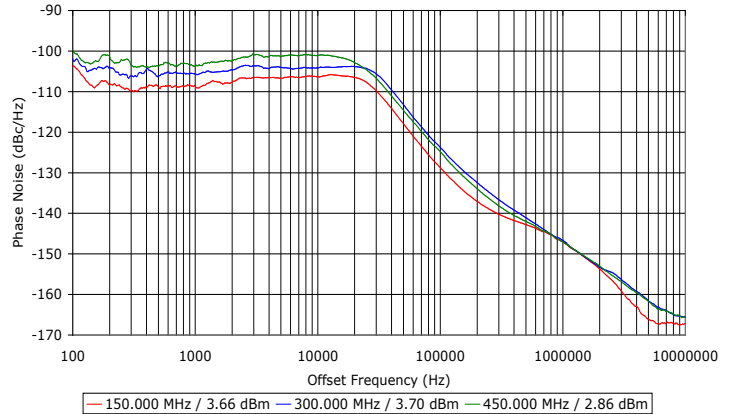
150 - 450 MHz

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

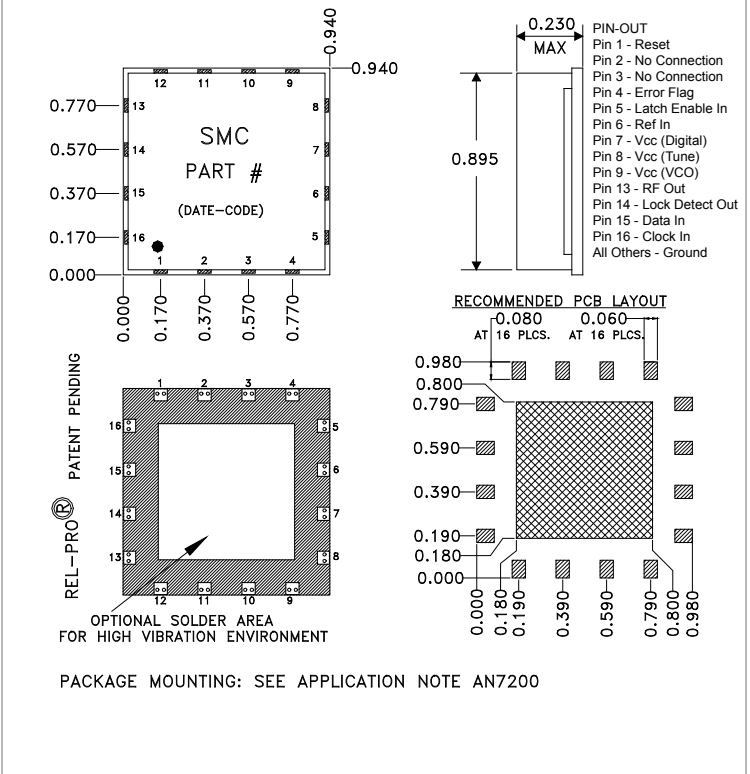


SPECIFICATIONS (Rev. N 12/09/08)

Frequency	150-450 MHz		
Step Size	500 kHz		
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	10
	VCO	+5	35
	Tune	+25	5
Output Power	0 dBm (Min)		
Spurious Suppression	-90 dBc (Typ.)		
Harmonic Suppression	-25 dBc (Typ)		
Settling Time	10 mSec (Max.) *		
Output Impedance	50 Ohms		
Typical Phase Noise	Offset	Phase Noise	
	@ 1 kHz	-103 dbc/Hz	
	@ 10 kHz	-103 dbc/Hz	
	@ 100 kHz	-125 dbc/Hz	
Operating Temperature Range	-40 to +85 °C		
Programming	See Application Note: AN7100		

* From the rising edge of LE to stable lock detect

Package # 273LF



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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
 Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787

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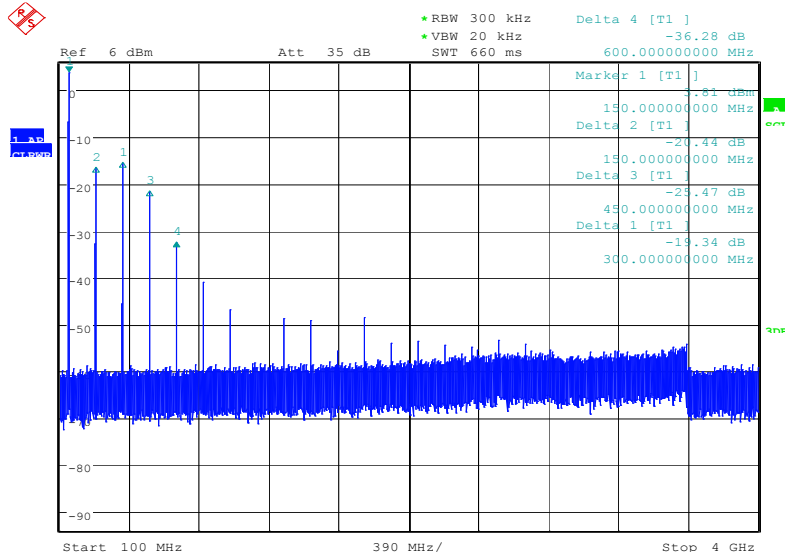
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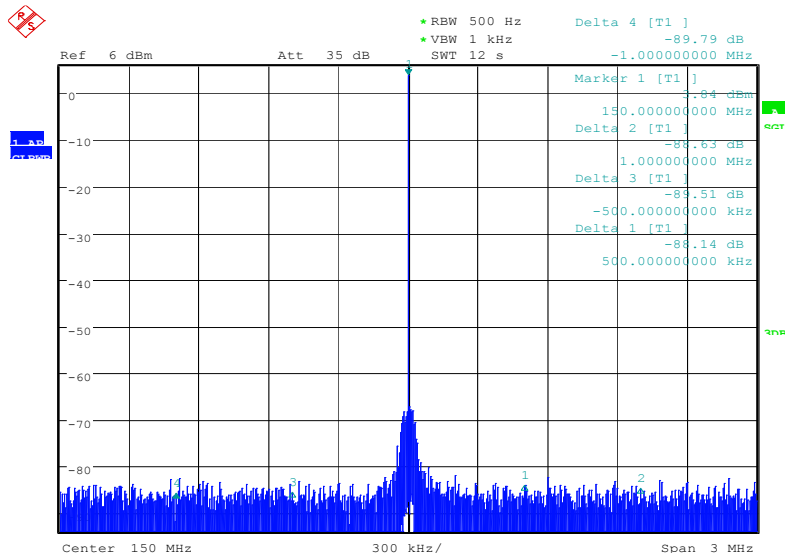
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PERFORMANCE PLOTS

Harmonic suppression



Reference sideband suppression



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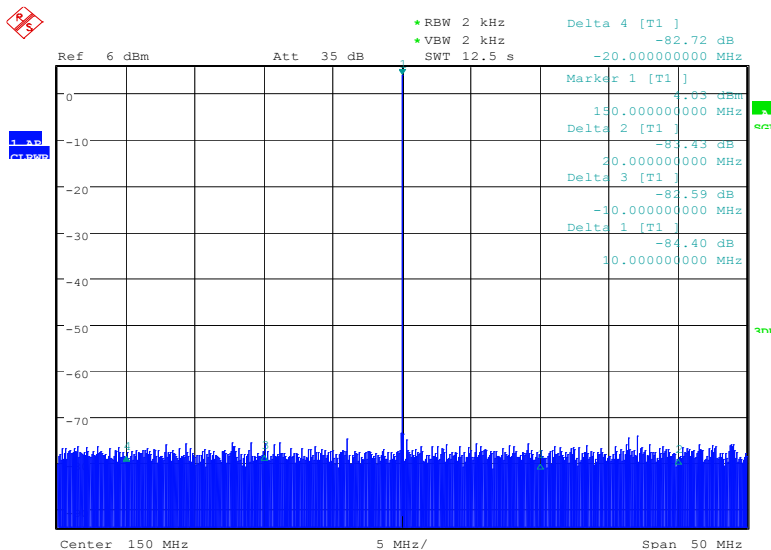
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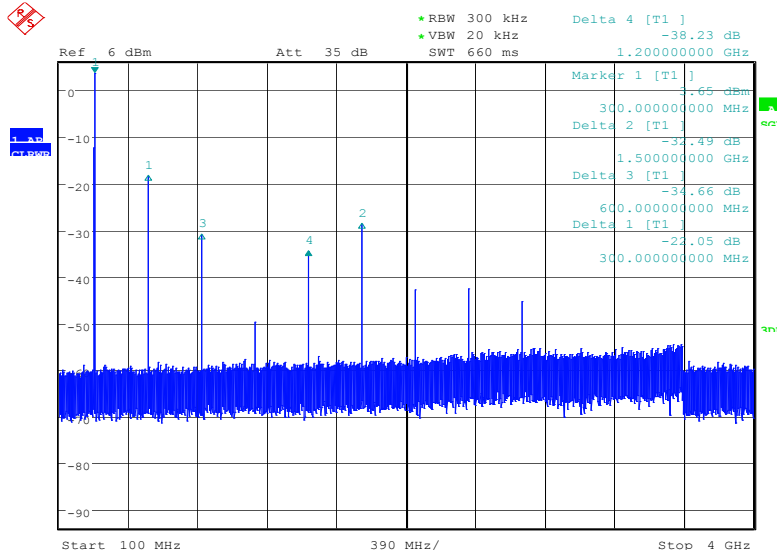
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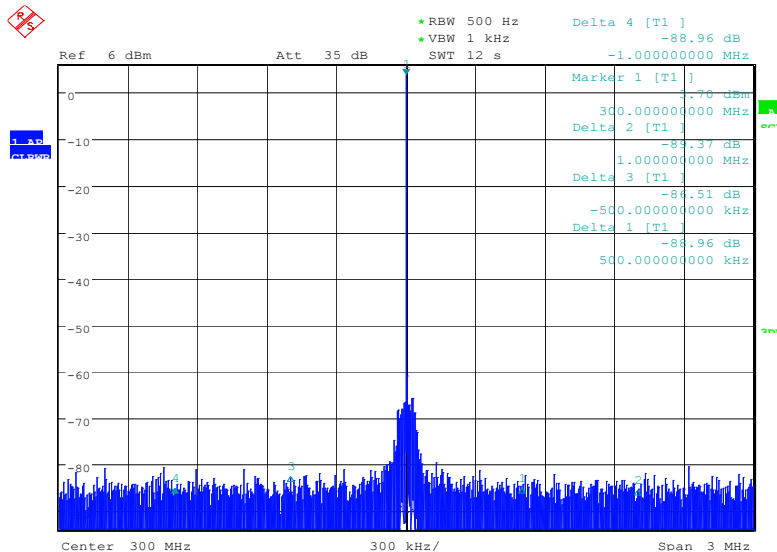
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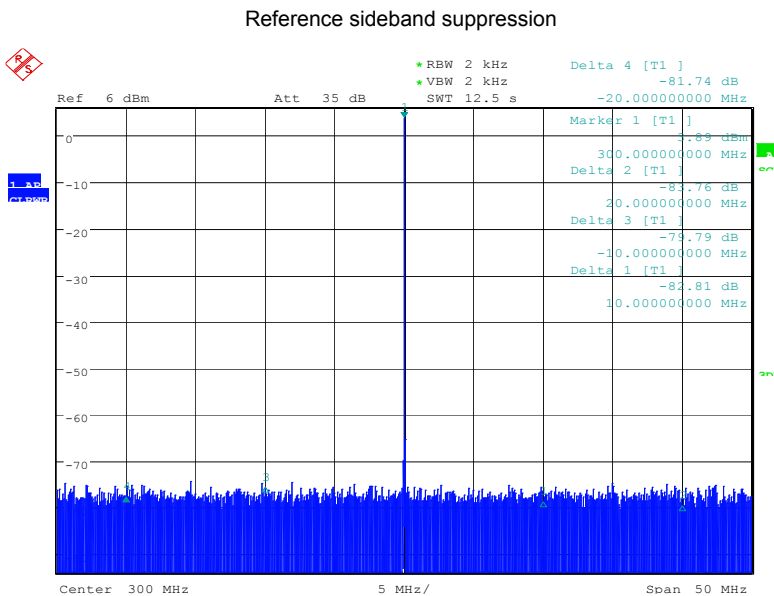


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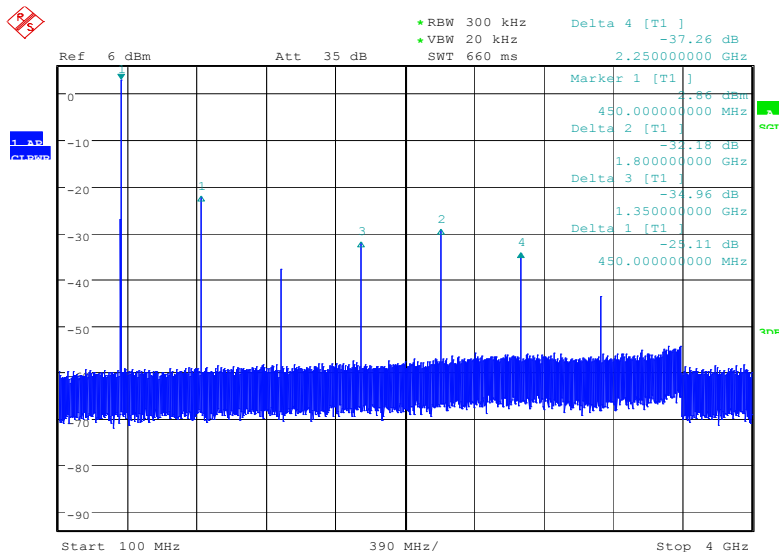
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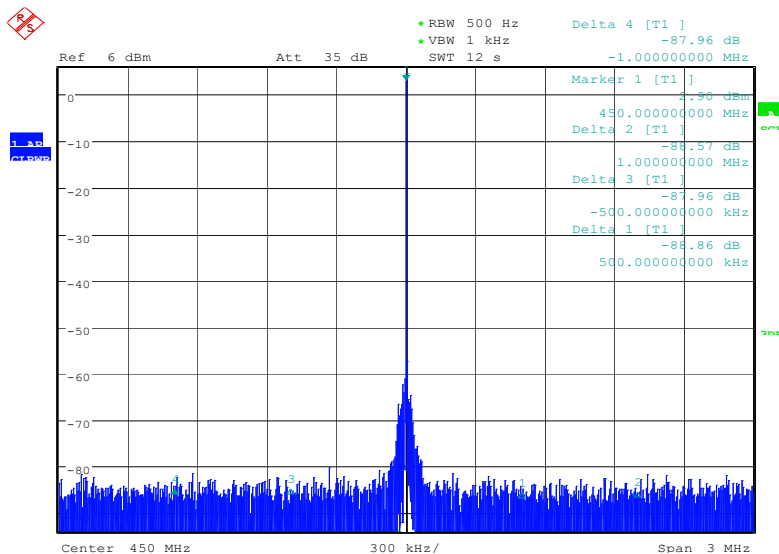
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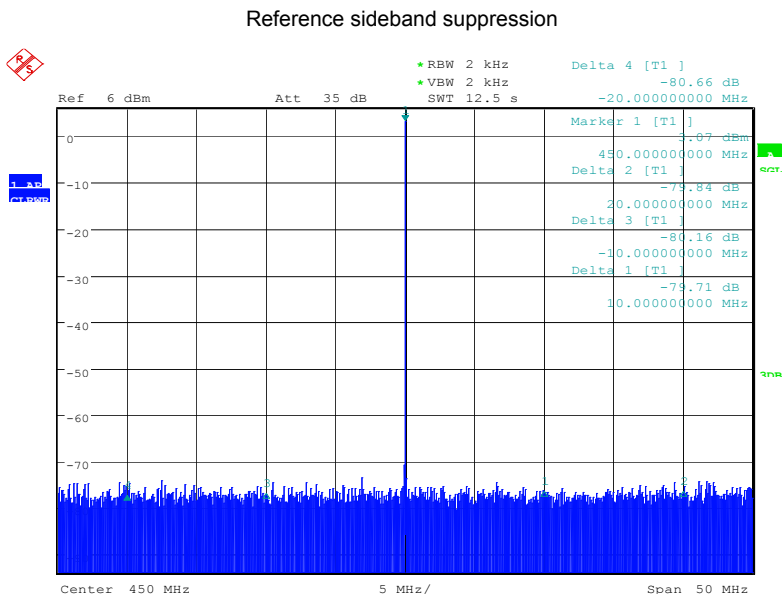


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