

INTELLIGENT INTERACTIVE SYNTHESIZER

SURFACE MOUNT MODEL: FSW1545-50

WIDE BANDWIDTH

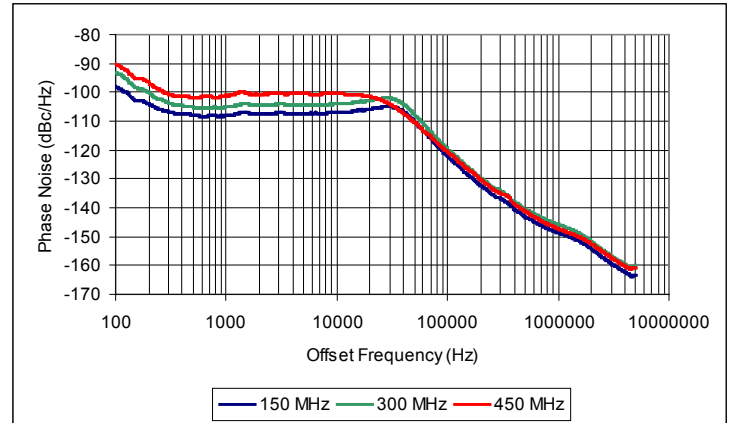
150 - 450 MHz

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. J 11/04/05)

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	-70 dBc (Max)		
Harmonic Suppression	-20 dBc (Typ)		
Settling Time	< 10 mSec		
Output Impedance	50 Ohms		
Typical Phase Noise	Offset	Phase Noise	
	@ 1 kHz	-98 dbc/Hz	
	@ 10 kHz	-98 dbc/Hz	
	@ 100 kHz	-120 dbc/Hz	
Operating Temperature Range	-40 to +85 °C		
Programming	See Application Note: AN7100		

Package #	273LF
Package Style	Surface Mount

SMC
PART #
(DATE-CODE)

0.300 MAX
0.895

PIN-OUT

- Pin 1 - Reset
- Pin 2 - No Connection
- Pin 3 - No Connection
- Pin 4 - Error Flag
- Pin 5 - Latch Enable In
- Pin 6 - Ref In
- Pin 7 - Vcc (Digital)
- Pin 8 - Vcc (Tune)
- Pin 9 - Vcc (VCO)
- Pin 13 - RF Out
- Pin 14 - Lock Detect Out
- Pin 15 - Data In
- Pin 16 - Clock In
- All Others - Ground

RECOMMENDED PCB LAYOUT

AT 16 PLCS. AT 16 PLCS.

OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

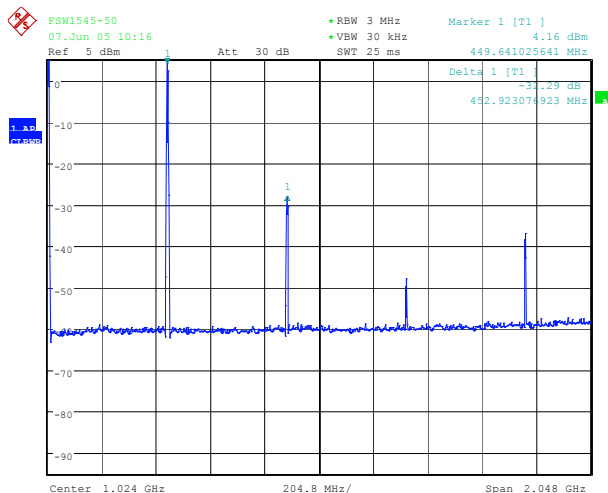
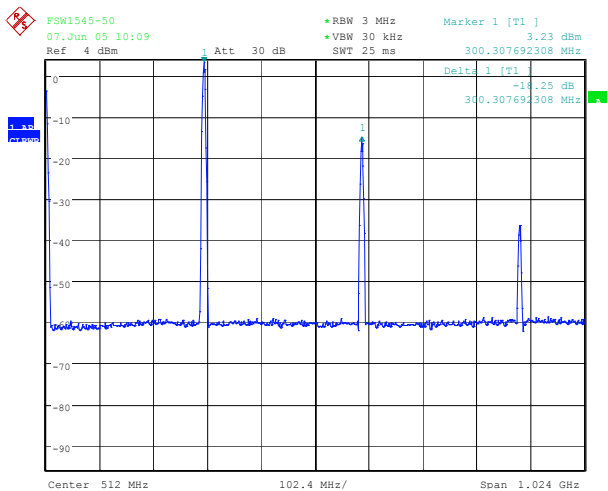
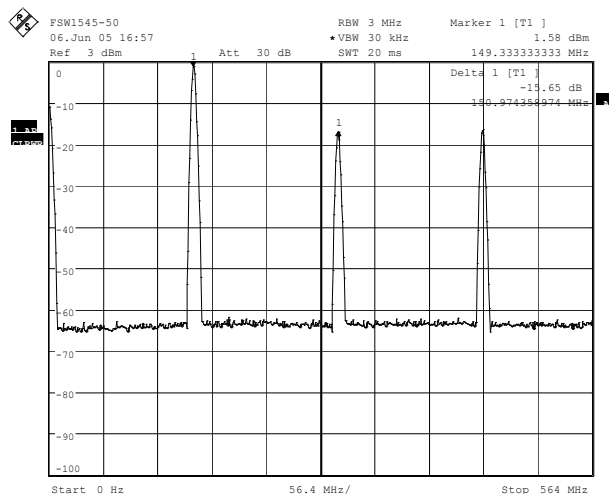
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TYPICAL HARMONIC REJECTION



PERFORMANCE PLOTS

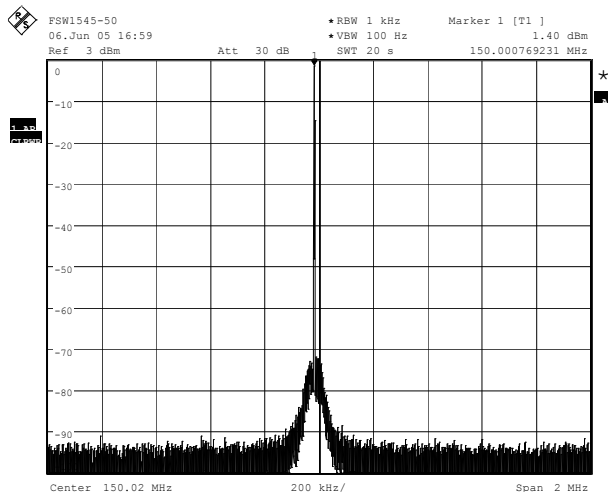
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REFERENCE SIDEBAND SUPPRESSION



PERFORMANCE PLOTS

