INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: FSW1125-50

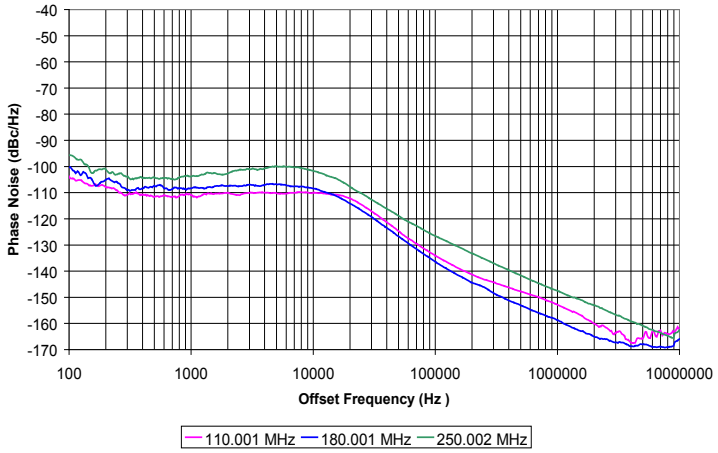
WIDE BANDWIDTH — 110 - 250 MHz

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

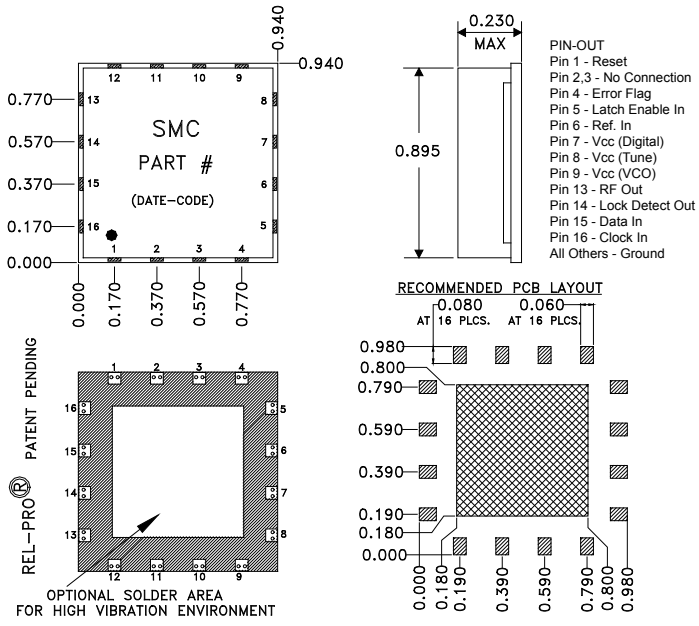


SPECIFICATIONS (Rev. E 10/27/06)

Frequency	110 - 250 MHz
Step Size	500 kHz
Reference Input Frequency	10 MHz (Min.)*
Reference Input Voltage	1.0 V p-p to 3.3 V p-p
Bias Voltage	Vcc: V (Vdc) = +5, I (mA Max.) = 15 Digital: +5 = 15 VCO: +5 = 40 Tune: +15 = 10
Output Power	+5 dBm (Min.)
Spurious Suppression	90 dB (Typ.)
Harmonic Suppression	12 dB (Typ.)
Settling Time	10 mSec (Max.)**
Output Impedance	50 Ohms (Nom.)
Typical Phase Noise	Offset: Phase Noise @ 1 kHz: -108 dbc/Hz @ 10 kHz: -105 dbc/Hz @ 100 kHz: -130 dbc/Hz
Operating Temperature Range	-40 to +85 °C
Programming	See Application Note: AN7100

** Reference input frequency is programmable in multiples of the step size, 10 MHz is the default setting. 150 MHz (Max.)*
*** From the rising edge of LE to stable lock detect*

Package #	273LF



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

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
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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SYNERGY® MICROWAVE CORPORATION

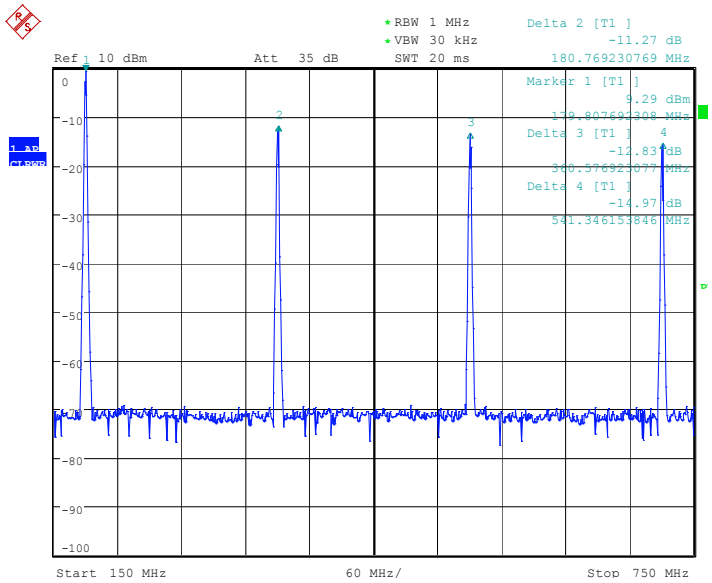
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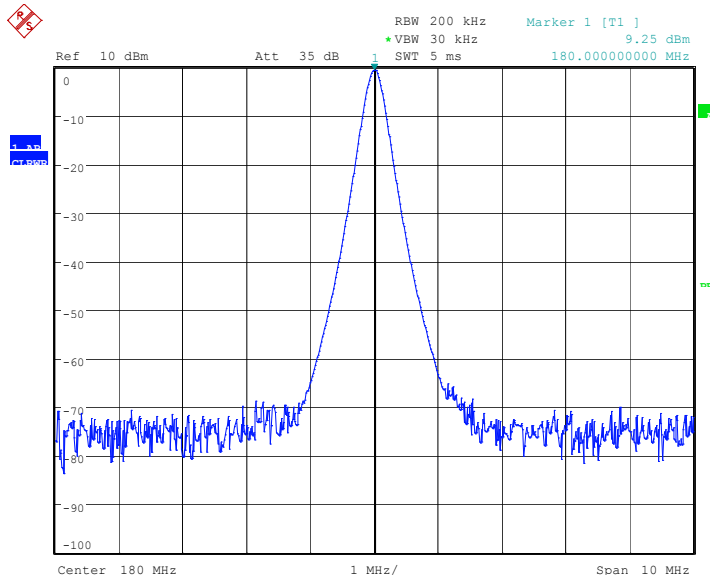
110 - 250 MHz

PERFORMANCE PLOTS

TYPICAL HARMONIC REJECTION



REFERENCE SIDEBAND SUPPRESSION



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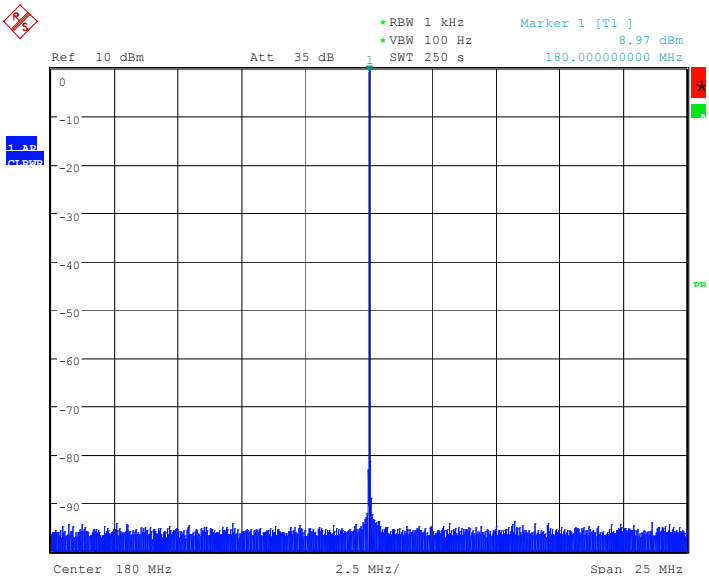
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