INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: LFSH196225-50

OPTIMIZED BANDWIDTH
1960 - 2250 MHz

FEATURES:
- Exceptionally Low Phase Noise
- Interactive Communication
- Standard Programming Interface
- Ultra Wide Tuning Range
- Lead Free - RoHS Compliant
- Patented REL-PRO® Technology
- Small Size, Surface Mount
- Buffered Output

SPECIFICATIONS (Rev. C 04/08/11)

Frequency 1960 - 2250 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 65
  - VCO +5 25
  - Converter +5 55
Output Power +4 dBm (Min.)
Spurious Suppression 75 dB (Typ.)
Harmonic Suppression 15 dB (Typ.)
Settling Time 20 mSec (Typ.)
Output Impedance 50 Ohms (Nom.)
Lock Detect Indicator CMOS 3.3 V

Typical Phase Noise
- Offset Phase Noise
  - @ 1 kHz -83 dBc/Hz
  - @ 10 kHz -96 dBc/Hz
  - @ 100 kHz -127 dBc/Hz

Operating Temperature Range -40 to +85 °C

Absolute Maximum Ratings
- Storage Temp. Range -55 to +125 °C
- Bias Voltage (Digital) +5.25 V
- Bias Voltage (VCO) +5.5 V
- Bias Voltage (Converter) +8 V
- DC Voltage Applied to RF Out ±25 V

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; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,612,296; 2,524,751

Copyright © Synergy Microwave Corporation
201 McLean Boulevard • Paterson, New Jersey 07504 USA • Tel: (973) 881-8800 • Fax: (973) 881-8361
E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com
INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: LFSH196225-50

OPTIMIZED BANDWIDTH
1960 - 2250 MHz

REFERENCE SIDEBAND SUPPRESSION

PERFORMANCE PLOTS

Date: 20.0ct.2008  06:53:00
INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: LFSH196225-50

OPTIMIZED BANDWIDTH
1960 - 2250 MHz

HARMONIC SUPPRESSION

REFERENCE SIDEBAND SUPPRESSION
INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: LFSH196225-50

OPTIMIZED BANDWIDTH
1960 - 2250 MHz

REFERENCE SIDEBAND SUPPRESSION

PERFORMANCE PLOTS
INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: LFSH196225-50

OPTIMIZED BANDWIDTH

1960 - 2250 MHz

HARMONIC SUPPRESSION

REFERENCE SIDEBAND SUPPRESSION
INTELLIGENT INTERACTIVE SYNTHESIZER
SURFACE MOUNT MODEL: LFSH196225-50

OPTIMIZED BANDWIDTH
1960 - 2250 MHz

REFERENCE SIDEBAND SUPPRESSION

PERFORMANCE PLOTS