

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Broadband transmission
- Optical Transmitter
-

Application Notes

- AN-107: Manual Soldering Technique
- AN-205: Measuring Phase Noise for SFS Series

Performance Specifications

	Min	Typ	Max	Units
Frequency	9370		9370	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-83		dBc/Hz
Harmonic Suppression (2nd)		-40		dBc
Spurious Suppression		85		dBc
Power Output	-3	0	3	dBm
Load Impedance		50		Ω
Settling Time		3		mS
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		SFS-L1		

Power Supply Requirements

	Min	Typ	Max	Units
Supply Voltage 1: PLL (Vcc, nom)		3		Vdc
Supply Voltage 2: VCO (Vcc, nom)		5		Vdc
Supply Current 1: PLL (Icc, typ)		11		mA
Supply Current 2: VCO (Icc, typ)		90		mA

Reference Oscillator Signal

	Min	Typ	Max	Units
Frequency		20		MHz
Phase Noise @1 kHz offset		-145		dBc/Hz

Additional Notes

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LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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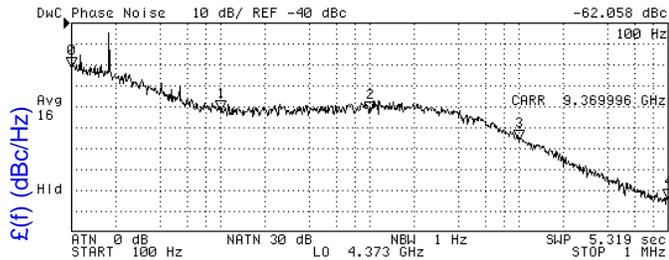
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FRM-S-002.B
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Phase Noise, typ.

PHASE NOISE (1 Hz BW, typical)



N	SWP PARAM	VAL
0	100 Hz	-62.058 dBc
1	1 kHz	-82.413 dBc
2	10 kHz	-83.192 dBc
3	100 kHz	-96.939 dBc
4	1 MHz	-125.28 dBc

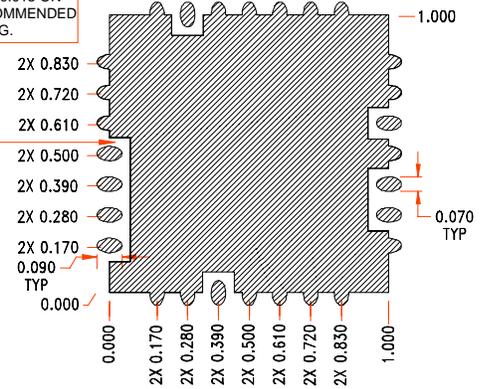
OFFSET (Hz)

Footprint

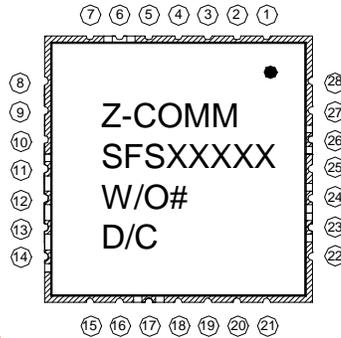
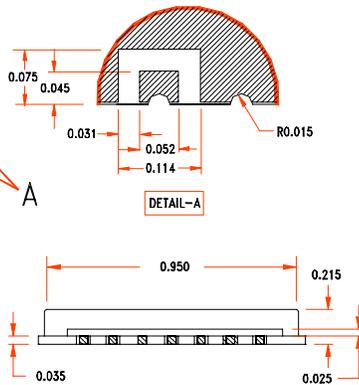
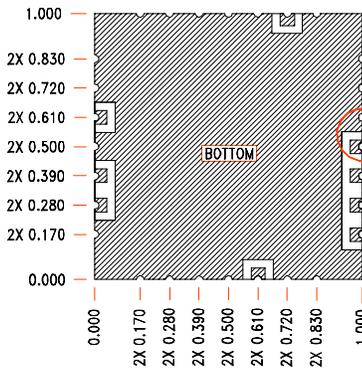
RECOMMENDED FOOTPRINT

SEVERAL HOLES OF \varnothing 0.015 ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS



Physical Dimensions



PIN CONFIGURATION

6	RF OUT
11	LOCK DETECT
12	N/C
13	N/C
14	N/C
17	REF IN
23	N/C
24	Vcc CHIP
26	Vcc VCO
REST	GROUND

NOTE: ALL DIMENSIONS ARE IN INCHES
TOL: XXX: +/- 0.010