

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Broadband transmission
- Optical Transmitter
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Application Notes

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

Performance Specifications	Min	Typ	Max	Units
Frequency	10000		10000	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-85		dBc/Hz
Harmonic Suppression (2nd)		-30		dBc
Spurious Suppression		-70		dBc
Power Output	-3	0	3	dBm
Load Impedance		50		Ω
Settling Time		3		mS
Operating Temperature Range	-40		85	°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		100		MHz
Phase Noise @1 kHz offset		-145		dBc/Hz

Additional Notes

Pin 7, 8, and 9 are no-connect.

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

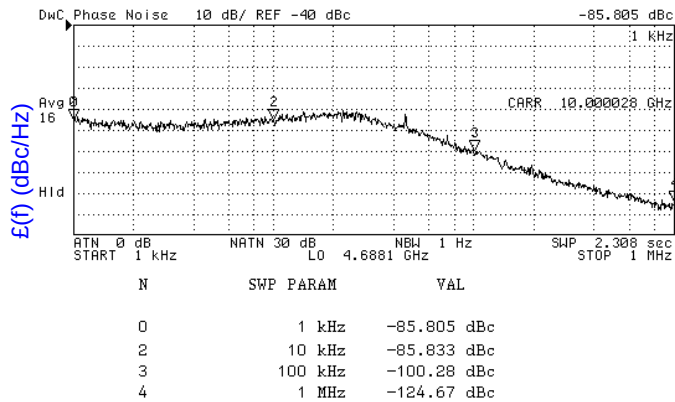
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Phase Noise, typ.

PHASE NOISE (1 Hz BW, typical)



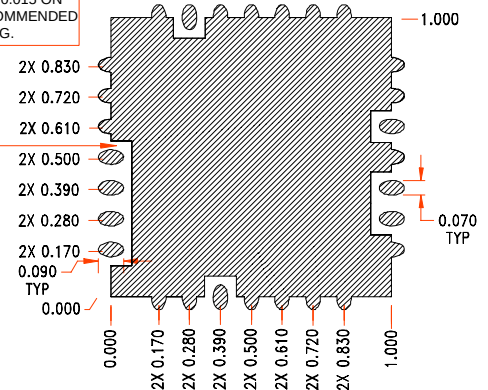
OFFSET (Hz)

Footprint

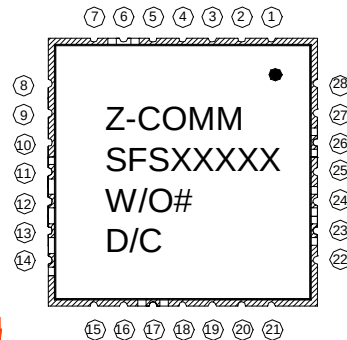
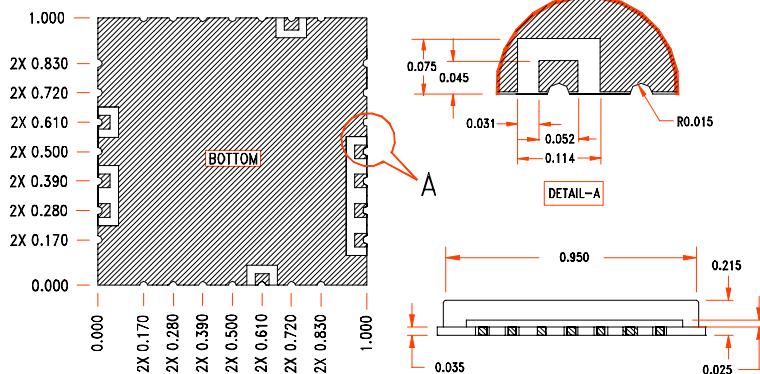
RECOMMENDED FOOTPRINT

SEVERAL HOLES OF ϕ 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