

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Point to point transmission
- Satellite Communications
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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	5490		5490	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-93		dBc/Hz
Harmonic Suppression (2nd)		-30		dBc
Spurious Suppression		-70		dBc
Power Output	0	2	4	dBm
Load Impedance		50		Ω
Settling Time		.3		mS
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		PLL-V12N		

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)		33		mA

Reference Oscillator Signal

	Min	Typ	Max	Units
Frequency		10		MHz
Phase Noise @1 kHz offset		-145		dBc/Hz

Additional Notes

For Reference oscillator frequency of <20MHz, ensure SR>50V/us. See Analog Devices ADF4106 application note for more details. Pin 7, 8, and 9 are no-connect.

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

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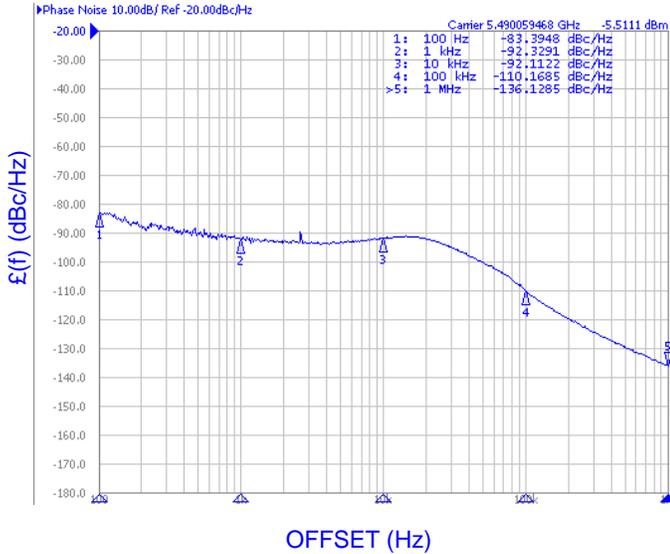
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Phase Noise, typ.

Footprint

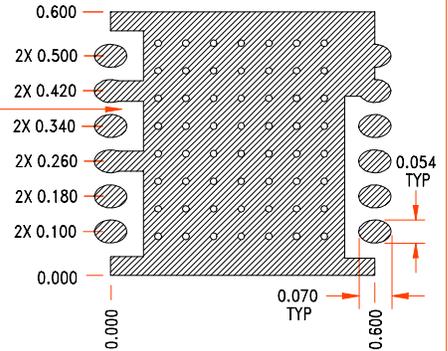
PHASE NOISE (1 Hz BW, typical)



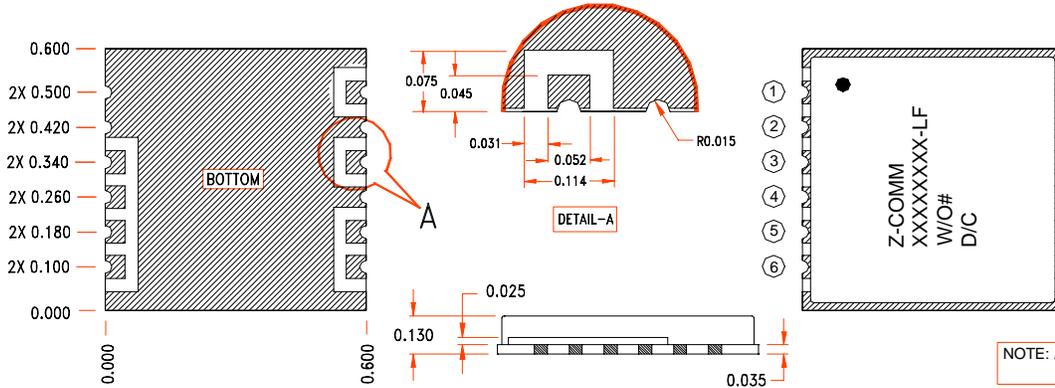
RECOMMENDED FOOTPRINT

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

1	Vcc(VCO)
3	RF OUT
5	MUX OUT
6	Vcc(CHIP)
7	CLOCK
8	DATA
9	ENABLE
10	REF IN
REST	GROUND

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