

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Satellite Communications
- Microwave Radio
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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	1680		1680	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-106		dBc/Hz
Harmonic Suppression (2nd)		-25		dBc
Spurious Suppression		-80		dBc
Power Output	4	6	8	dBm
Load Impedance		50		Ω
Settling Time		1.2		mS
Operating Temperature Range	-40		85	°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)		9		mA
Supply Current 2: VCO (Icc, typ)		31		mA

Reference Oscillator Signal

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

Additional Notes

Note1: Phase noise measurement was performed using a 10MHz CMOS reference oscillator with a phase noise of -145dBc/Hz @1KHz.
 Note2: For Reference oscillator frequency of <20MHz, ensure SR>50V/us. See Analog Devices ADF4106 application note for more details.
 Pin 7, 8, 9 are no connect.

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

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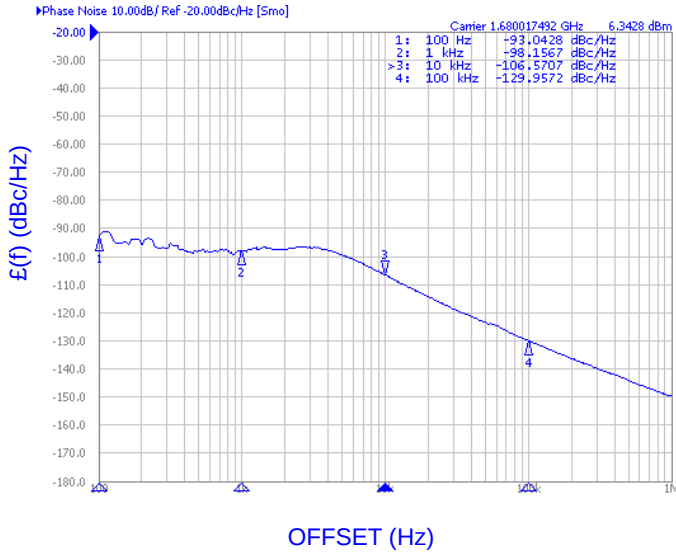
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Phase Noise, typ.

Footprint

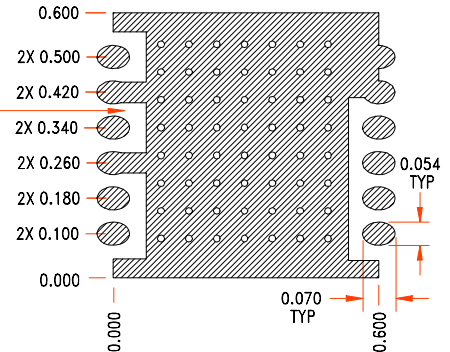
PHASE NOISE (1 Hz BW, typical)



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

