

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Radar Equipment
- Satellite Communications
- Broadband Transmission

Application Notes

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

Performance Specifications	Min	Typ	Max	Units
Frequency	12000		12000	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-90		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	$^{\circ}\text{C}$
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)		15		mA
Supply Current 2: VCO (Icc, typ)		95		mA

Reference Oscillator Signal	Min	Typ	Max	Units
Frequency		10		MHz
Phase Noise @1 kHz Offset		-145		dBc/Hz

Additional Notes

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

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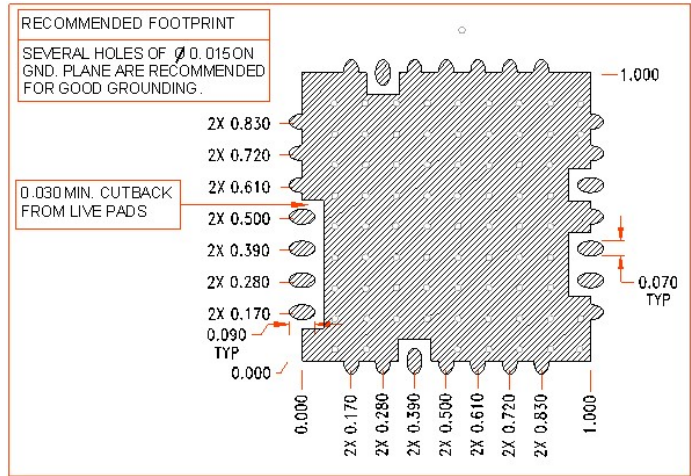
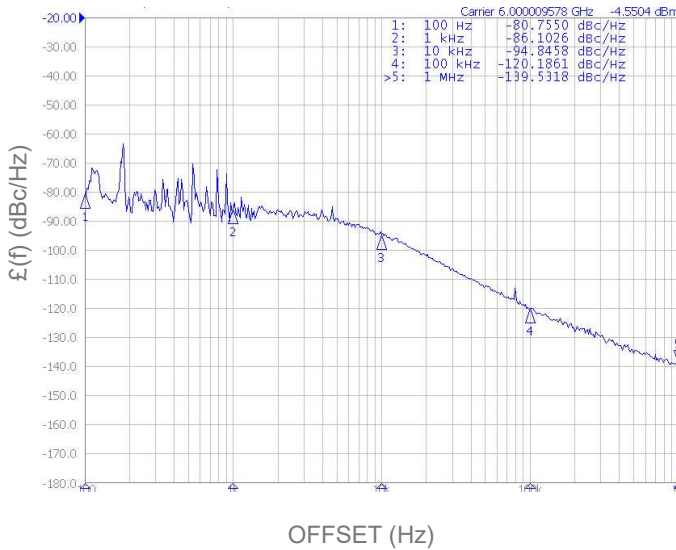
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Phase Noise, typ.

Footprint

PHASE NOISE (1 Hz BW, typical)



Physical Dimensions

