Z~Communications

SFS2810C-LF

Rev A1

Fixed Frequency Synthesizer
Surface Mount Module

Applications

- Satcom
- Test Instrumentation
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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	2810		2810	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-110		dBc/Hz
Harmonic Suppression (2nd)		-17		dBc
Spurious Suppression		-70		dBc
Power Output	3	6	8	dBm
Load Impedance		50		Ω
Settling Time		.5		mS
Operating Temperature Range	-40		70	°C
Package Style		PLL-V12C		

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)		30		mA

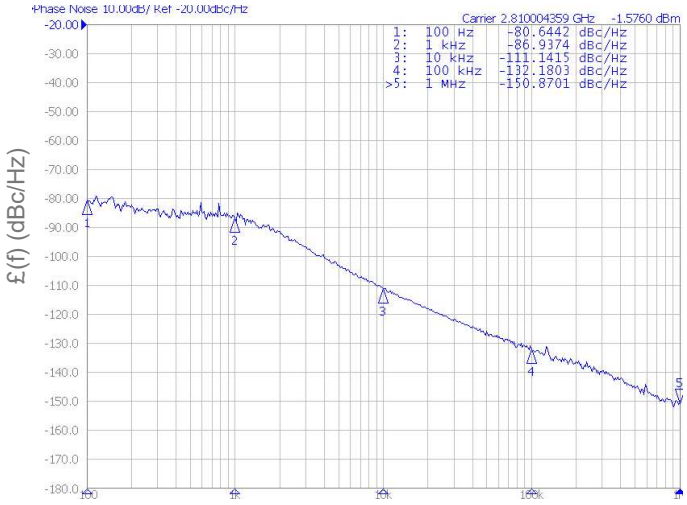
Reference Oscillator Signal	Min	Typ	Max	Units
Frequency		10		MHz
Phase Noise @1 kHz Offset		-145		dBc/Hz

Additional Notes

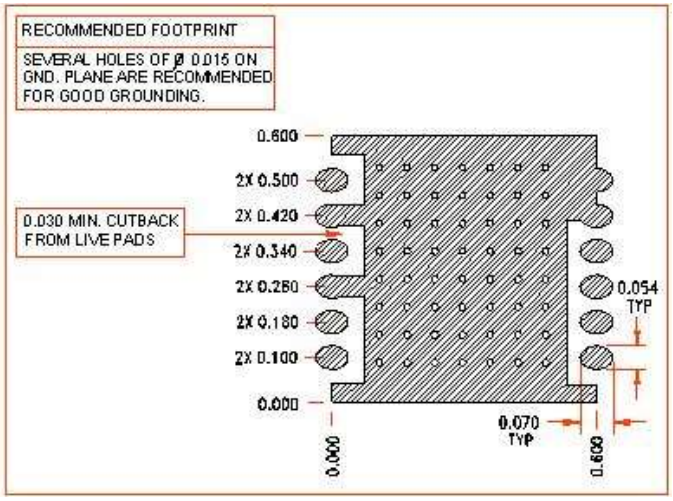
TEL: (858) 621-2700
URL: www.zcomm.com | EMAIL: applications@zcomm.com

Phase Noise, typ.

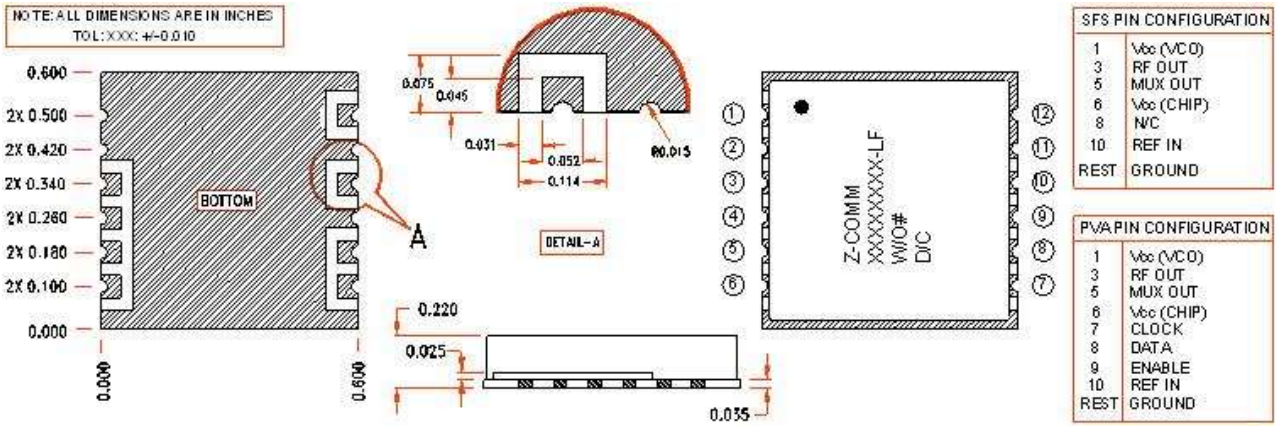
PHASE NOISE (1 Hz BW, typical)



Footprint



Physical Dimensions



SFS PIN CONFIGURATION	
1	Vcc (VCO)
3	RF OUT
5	MUX OUT
6	Vcc (CHIP)
8	N/C
10	REF IN
REST	GROUND

PVA 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