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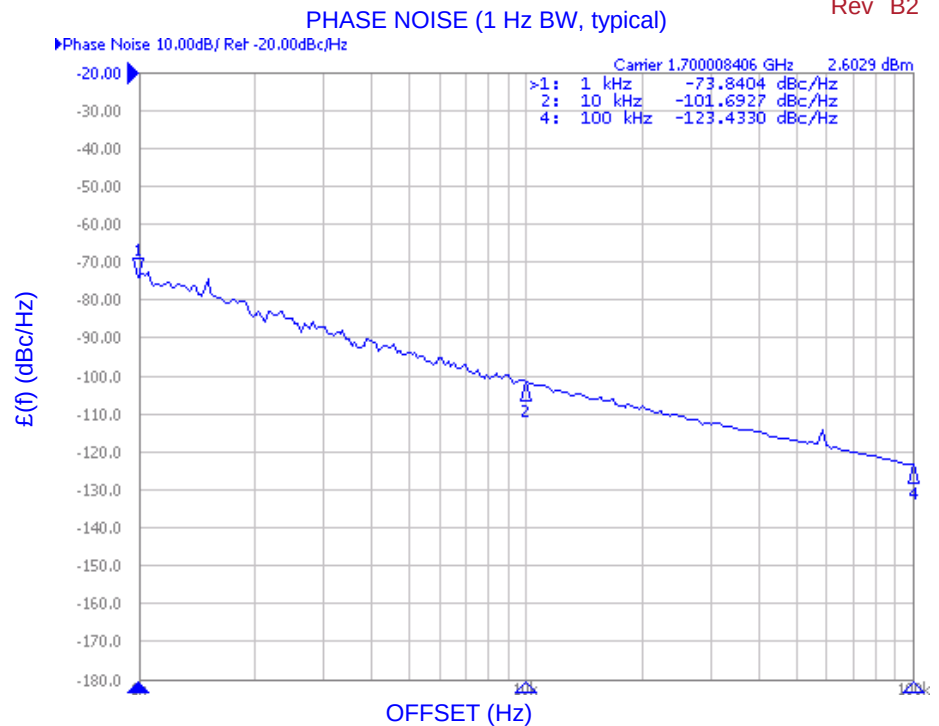
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Satellite Communications
- Test Instrumentation
- CATV Headend Equipment

Application Notes

- AN-101: Mounting and Grounding
- AN-102: Output Loading
- AN-107: Manual Soldering



Performance Specifications

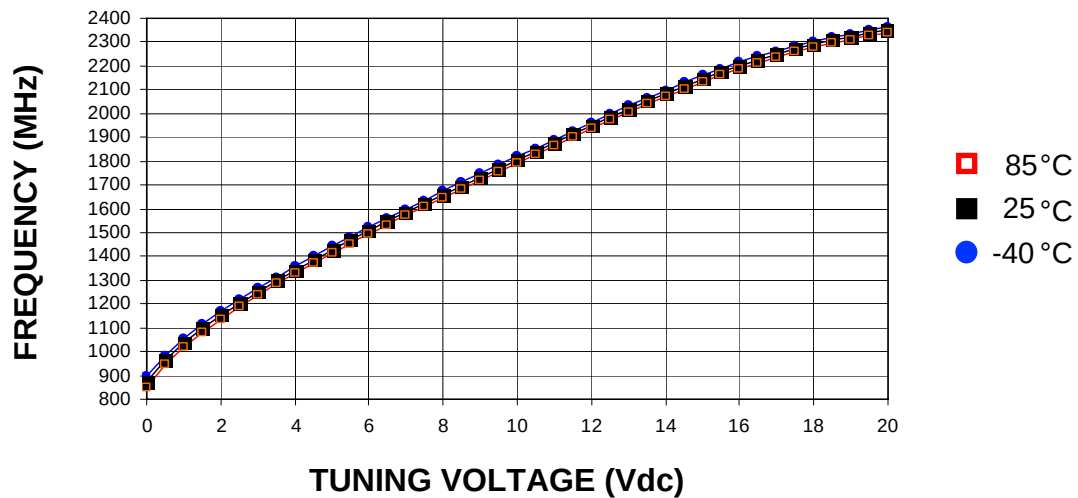
	Min	Typ	Max	Units
Oscillation Frequency Range	1200		2200	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-100		dBc/Hz
Harmonic Suppression (2nd)		-18	-14	dBc
Tuning Voltage	1		20	Vdc
Tuning Sensitivity (avg.)		75		MHz/V
Power Output	5.5	8.5	11.5	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			6	MHz/V
Pulling (14 dB Return Loss, Any Phase)			11	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-14S-L			

Power Supply Requirements

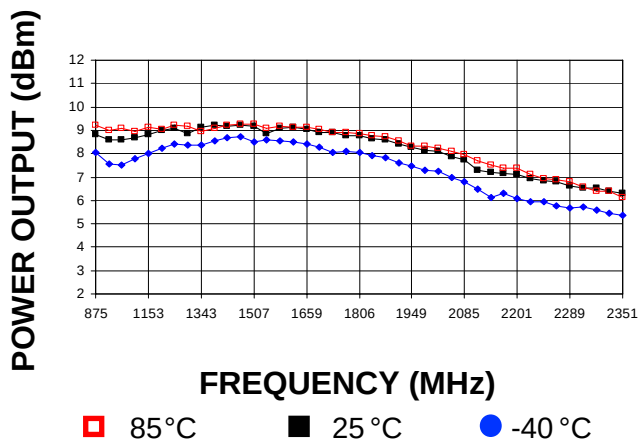
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		25	30	mA

Additional Notes

Tuning Curve, typ.



Power Curve, typ.

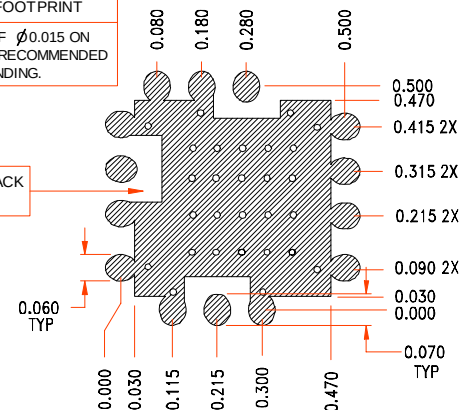


Footprint

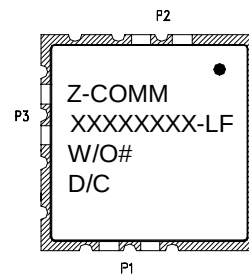
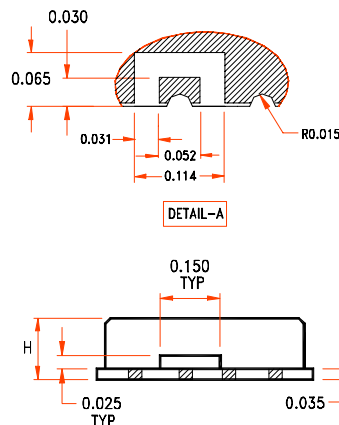
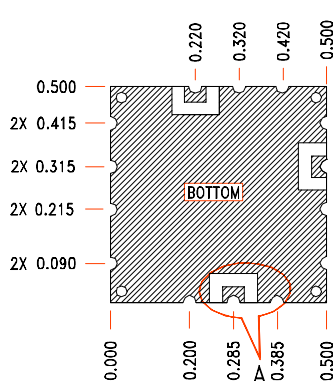
RECOMMENDED FOOTPRINT

SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS



Physical Dimensions



PIN CONFIGURATION

P1	Vt
P2	RF OUT
P3	Vcc
REST	GROUND

PACKAGE	H
MINI-14S	0.220
MINI-14S-LOW	0.160
MINI-14S-L	0.130

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

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