V200ME01-LF

Rev B2

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Voltage-Controlled Oscillator
Surface Mount Module

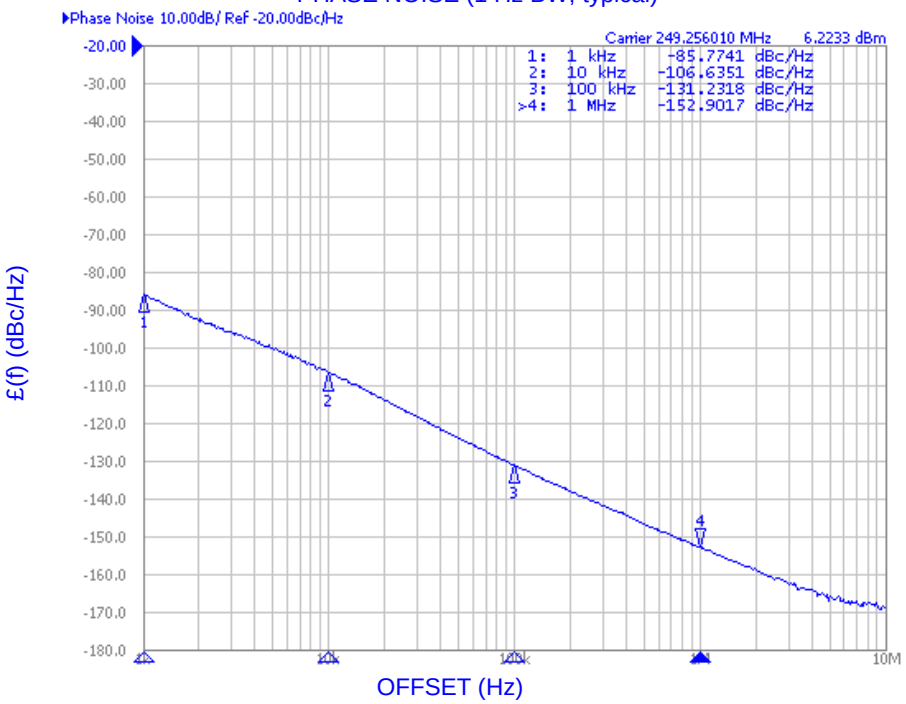
Applications

- Satellite Modems
- Mobile Radios
- Earthstations

Application Notes

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

PHASE NOISE (1 Hz BW, typical)



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	195		305	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-104		dBc/Hz
Harmonic Suppression (2nd)		-10	-8	dBc
Tuning Voltage	0		15	Vdc
Tuning Sensitivity (avg.)		12		MHz/V
Power Output	8	11	14	dBm
Load Impedance		50		Ω
Input Capacitance			550	pF
Pushing			.5	MHz/V
Pulling (14 dB Return Loss, Any Phase)			.5	MHz
Operating Temperature Range	-40		85	°C
Package Style		MINI-14S		

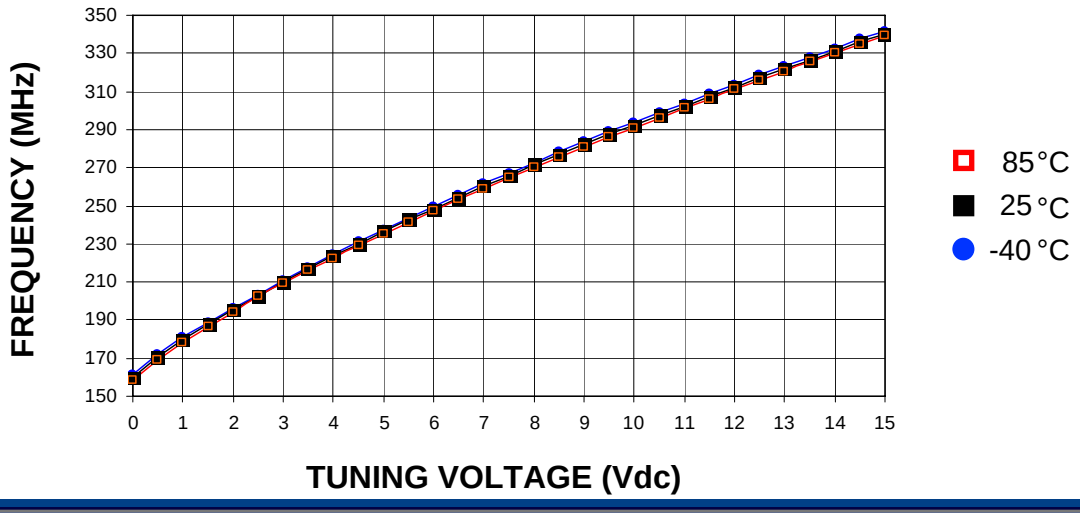
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		15		Vdc
Supply Current (Icc)		19	25	mA

Additional Notes

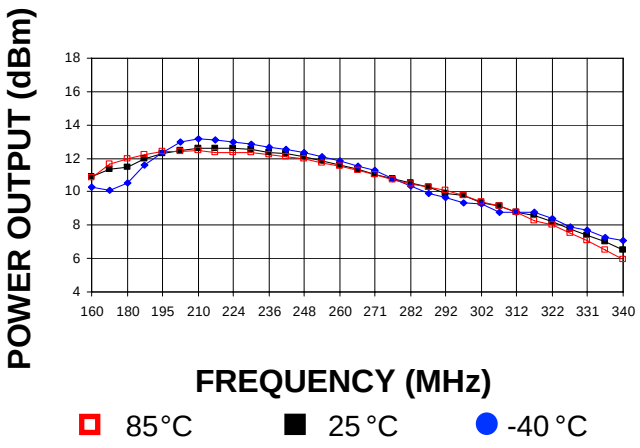
LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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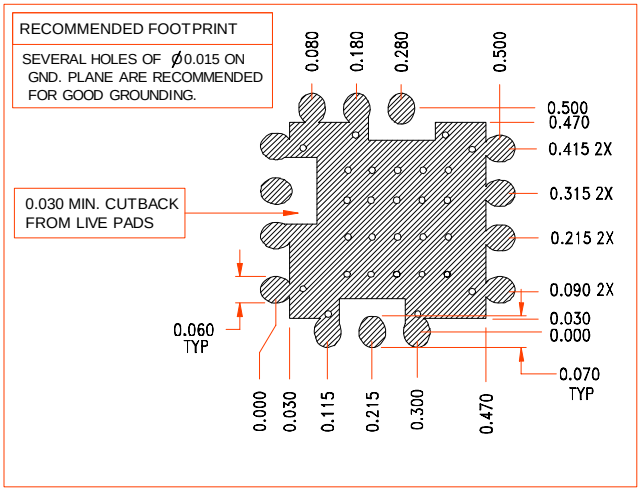
Tuning Curve, typ.



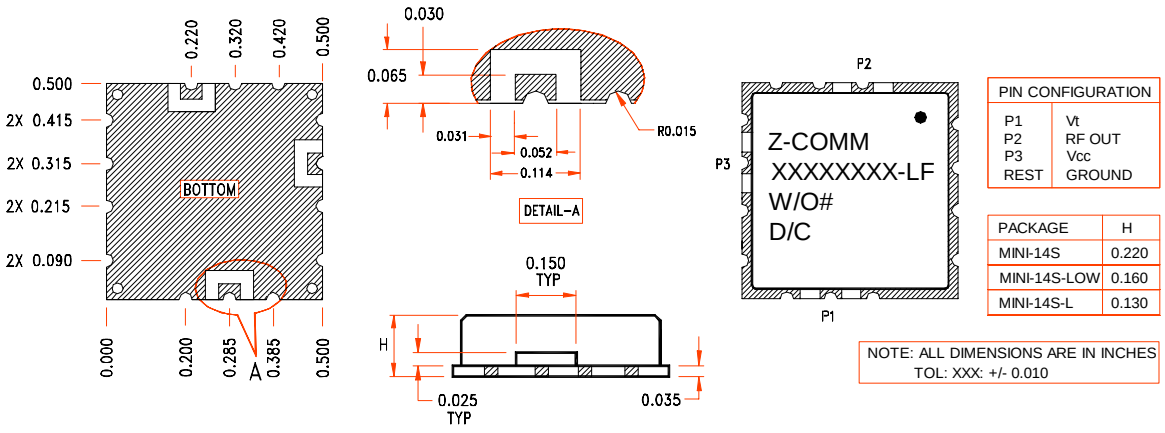
Power Curve, typ.



Footprint



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

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