Z~Communications

V295ME01

Rev A1

14118 Stowe Drive, Suite B | Poway, CA 92064
TEL: (858) 621-2700 | FAX: (858) 486-1927
URL: www.zcomm.com
EMAIL: applications@zcomm.com

Voltage-Controlled Oscillator
Surface Mount Module

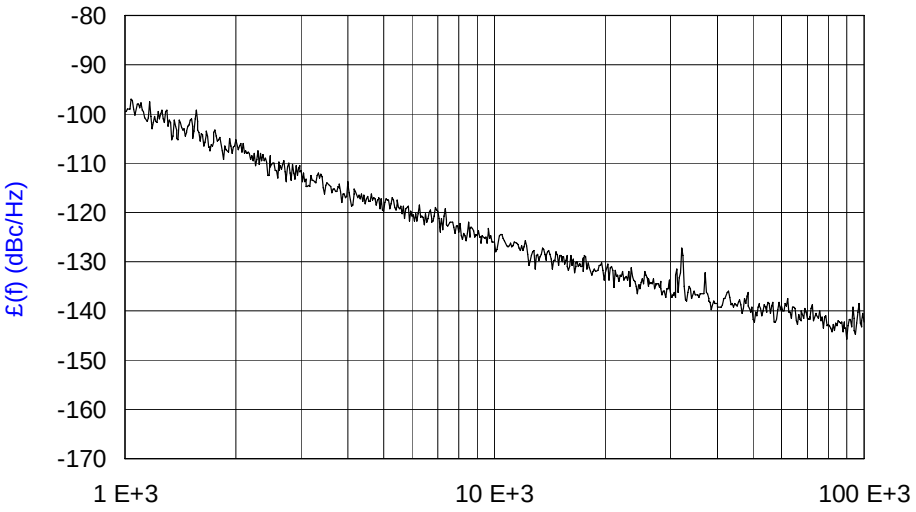
Applications

- 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	294		296	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-126		dBc/Hz
Harmonic Suppression (2nd)		-10		dBc
Tuning Voltage	0.75		4.25	Vdc
Tuning Sensitivity (avg.)		5		MHz/V
Power Output	-3	0	3	dBm
Load Impedance		50		Ω
Input Capacitance			400	pF
Pushing			.5	MHz/V
Pulling (14 dB Return Loss, Any Phase)			0	MHz
Operating Temperature Range	-40		85	°C
Package Style		MINI-16		

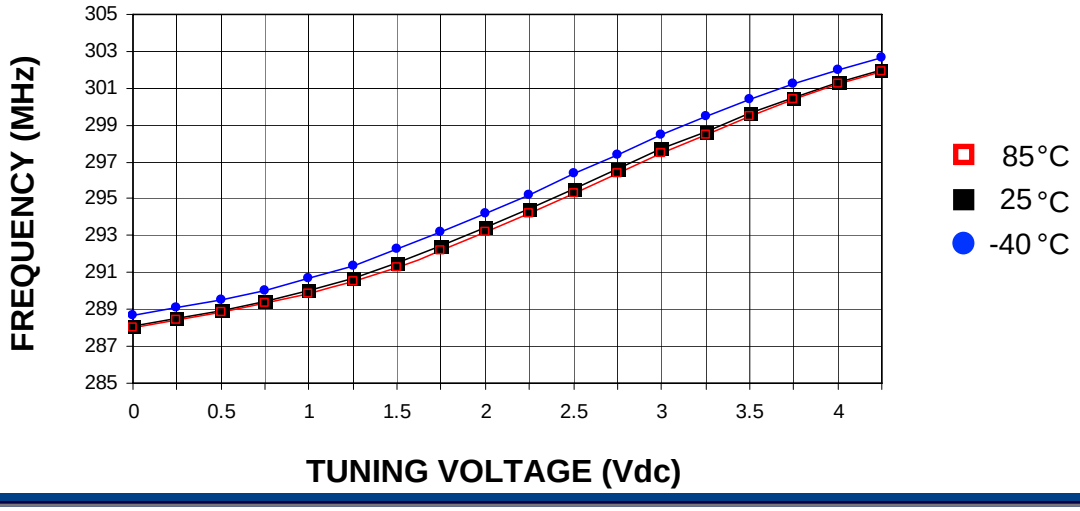
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		19	24	mA

Additional Notes

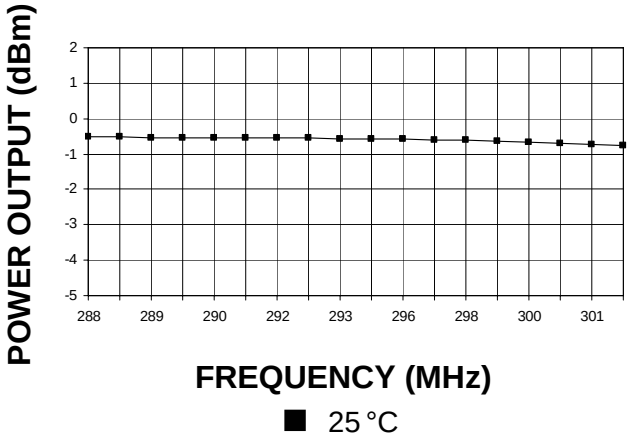
LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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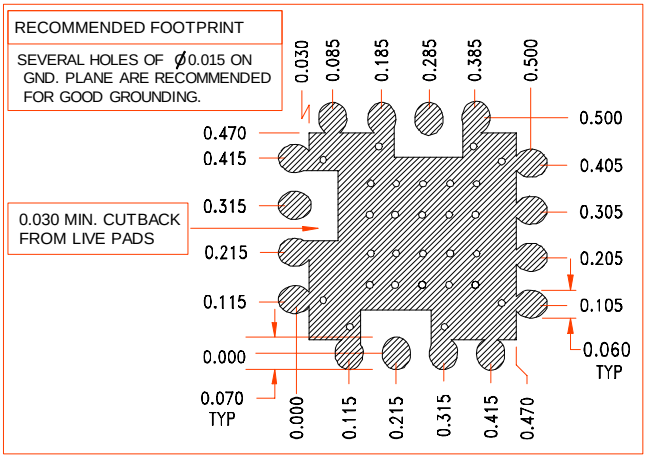
Tuning Curve, typ.



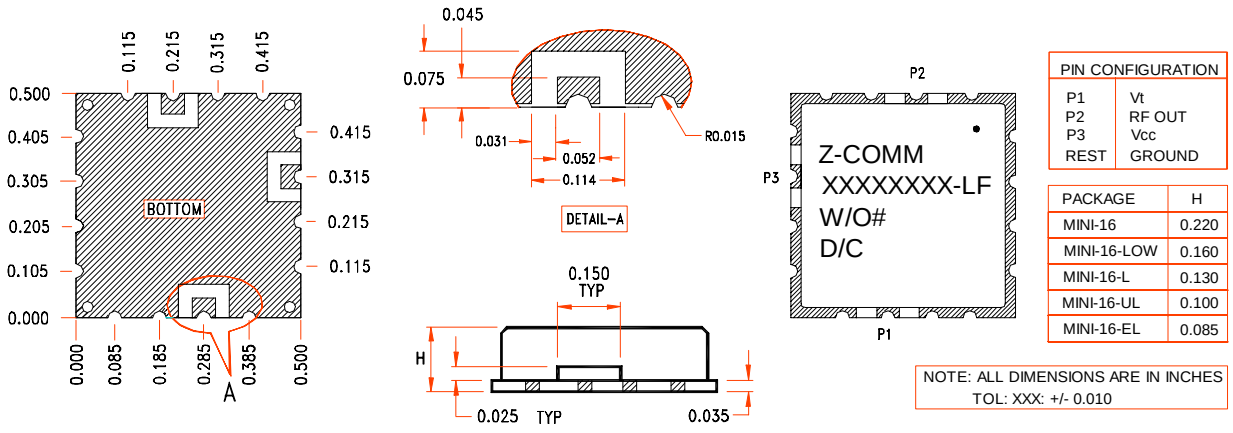
Power Curve, typ.



Footprint



Physical Dimensions



PIN CONFIGURATION	
P1	Vt
P2	RF OUT
P3	Vcc
REST	GROUND

PACKAGE	H
MINI-16	0.220
MINI-16-LOW	0.160
MINI-16-L	0.130
MINI-16-UL	0.100
MINI-16-EL	0.085

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

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