

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

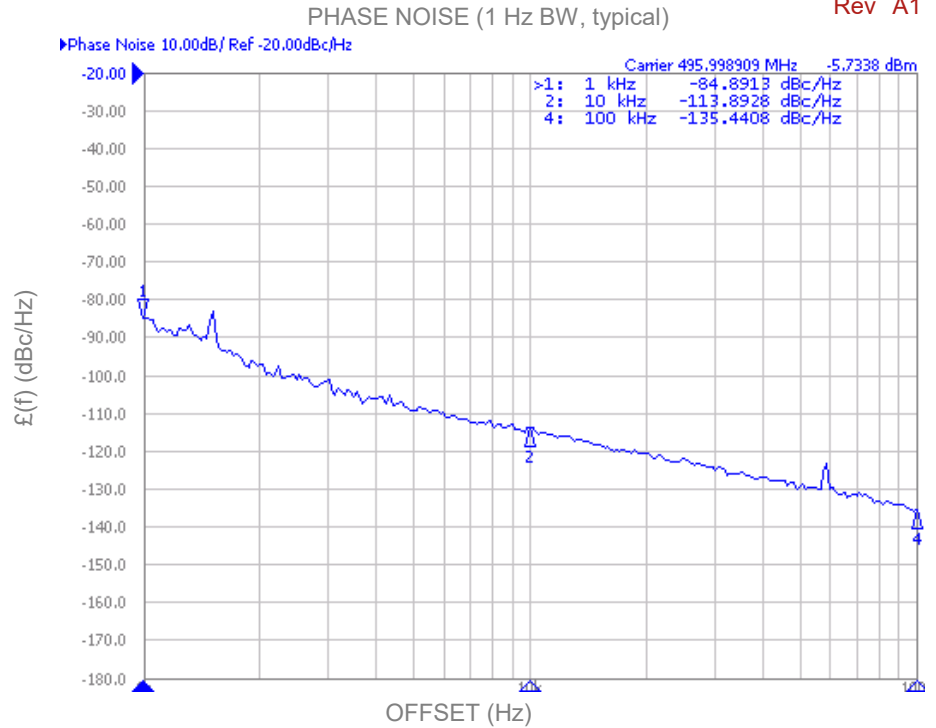
Voltage-Controlled Oscillator Surface Mount Module

Applications

Mobitex Radios
 RF Modems
 Satellite Communications

Application Notes

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



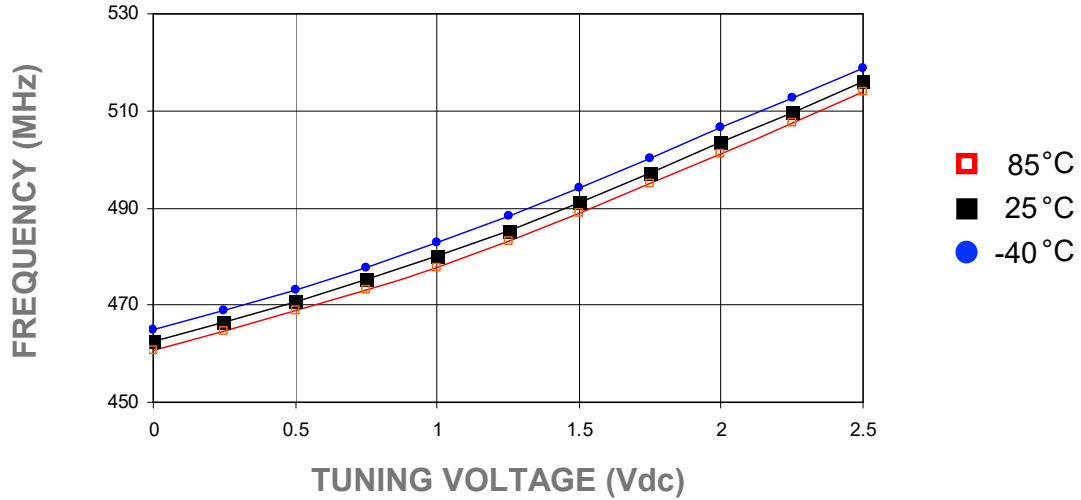
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	480		512	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-113		dBc/Hz
Harmonic Suppression (2nd)		-12	-11	dBc
Tuning Voltage	0.5		2.5	Vdc
Tuning Sensitivity (avg.)		23		MHz/V
Power Output	-2	0	2	dBm
Load Impedance		50		Ω
Input Capacitance			150	pF
Pushing			2	MHz/V
Pulling (14 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-16M-LOW			

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		3.3		Vdc
Supply Current (Icc)		11	14	mA

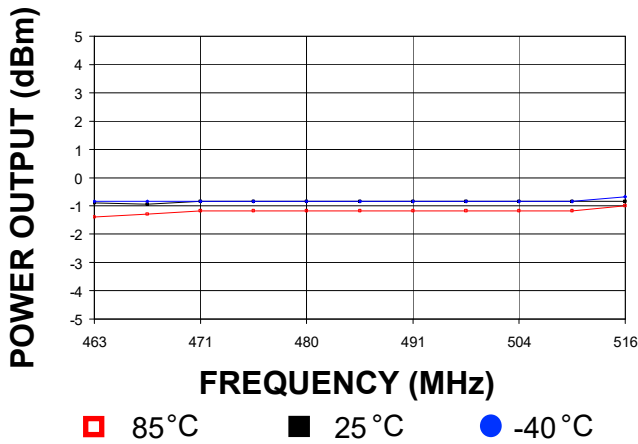
Additional Notes

P4, Modulation Port: Sensitivity = 10 KHz/V (max).

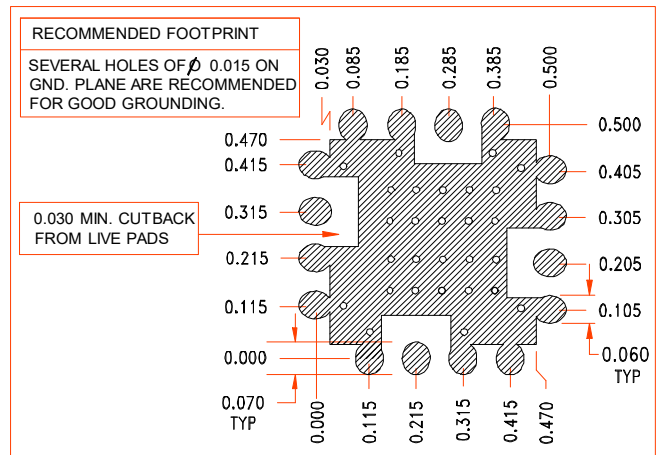
Tuning Curve, typ.



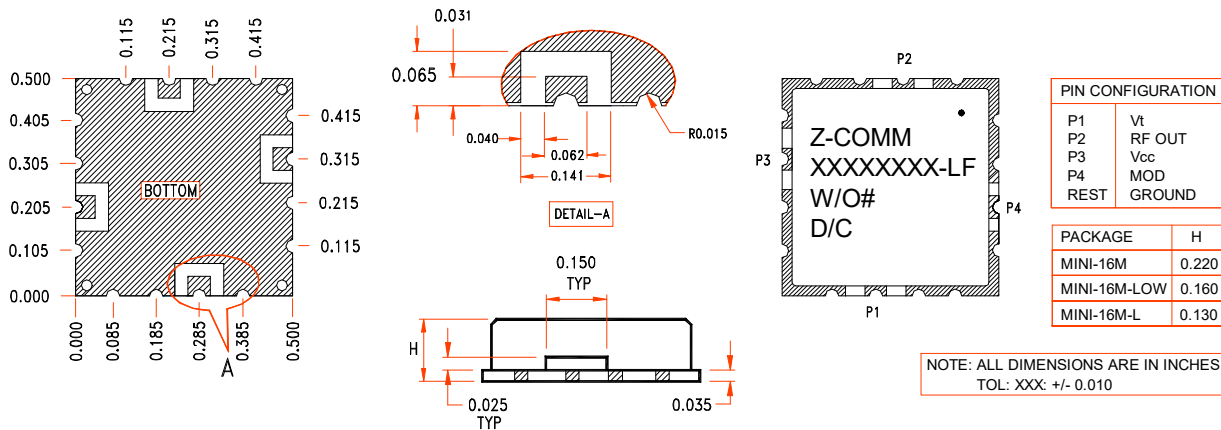
Power Curve, typ.



Footprint



Physical Dimensions



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