

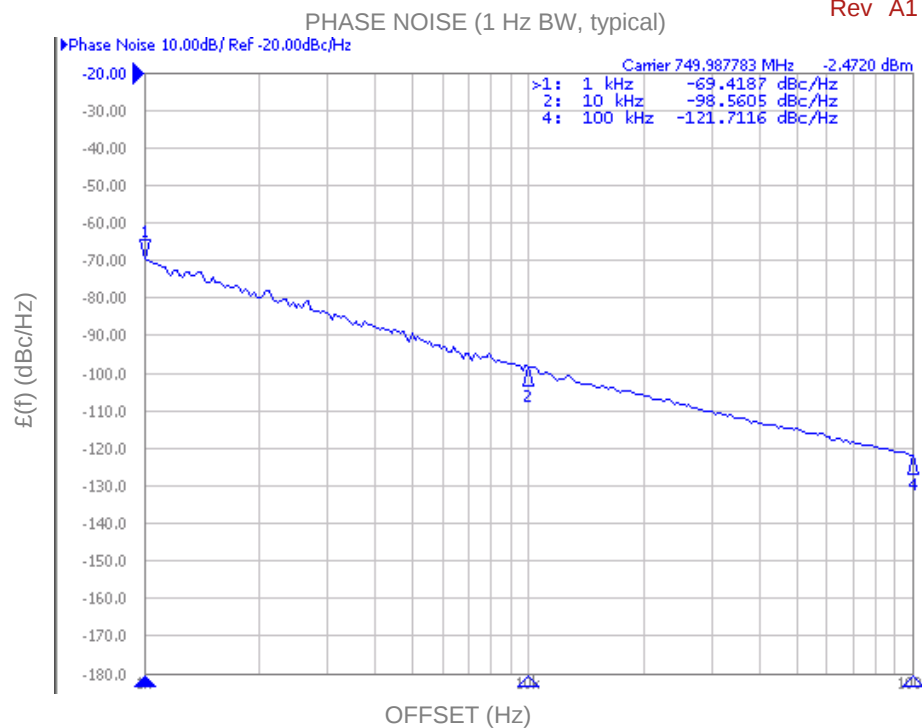
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Mobitex Radios
- RF Modems
- Satellite Communications

Application Notes

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

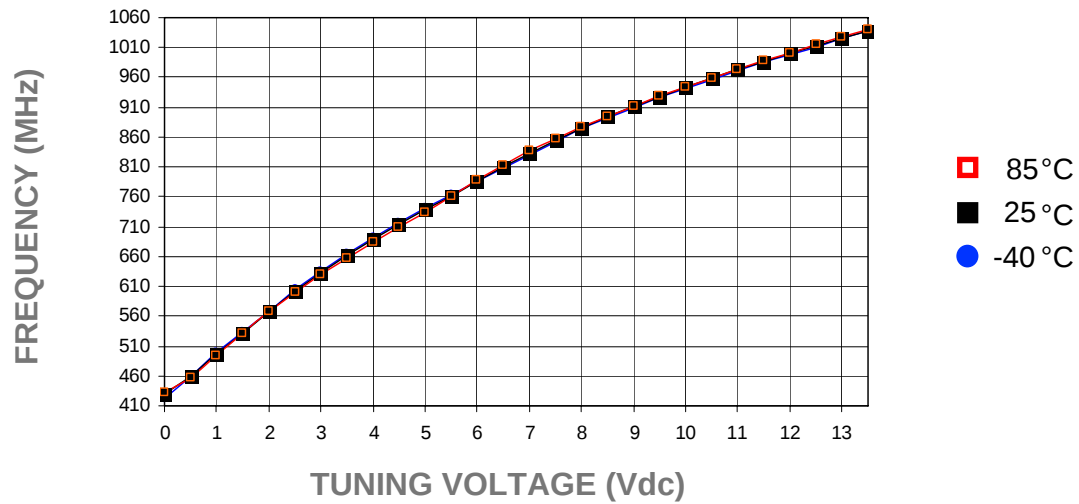


Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	500		1000	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-96		dBc/Hz
Harmonic Suppression (2nd)		-40	-23	dBc
Tuning Voltage	0.8		13.5	Vdc
Tuning Sensitivity (avg.)		46		MHz/V
Power Output	-2	2.5	7	dBm
Load Impedance		50		Ω
Input Capacitance			150	pF
Pushing			3	MHz/V
Pulling (12 dB Return Loss, Any Phase)			.5	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-16-L			

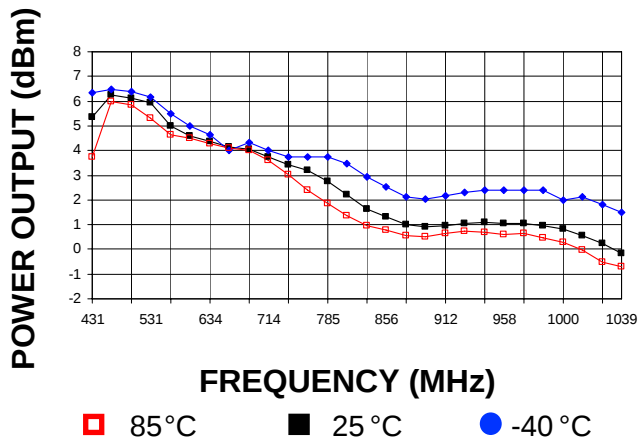
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		12		Vdc
Supply Current (Icc)		21	25	mA

Additional Notes

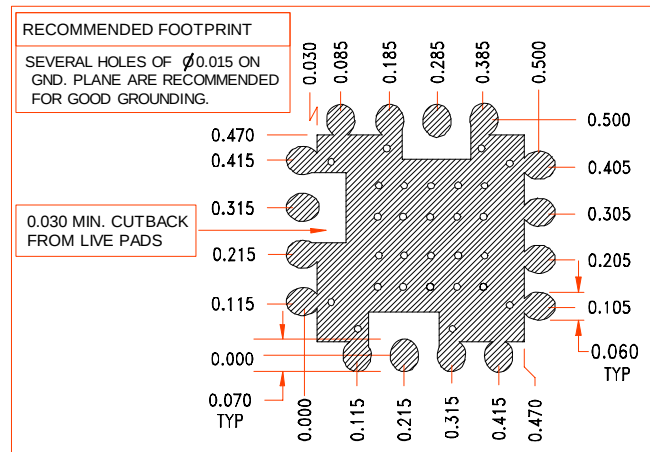
Tuning Curve, typ.



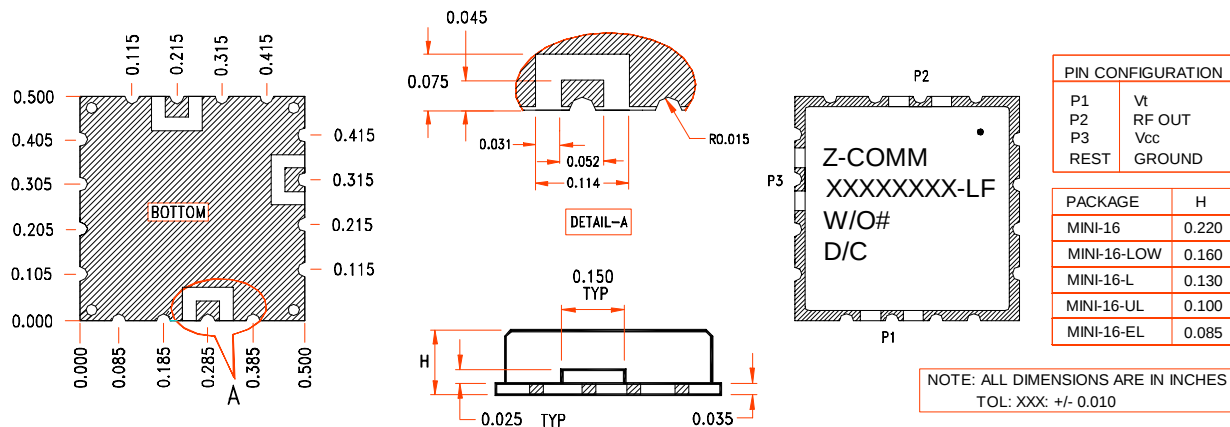
Power Curve, typ.



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

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