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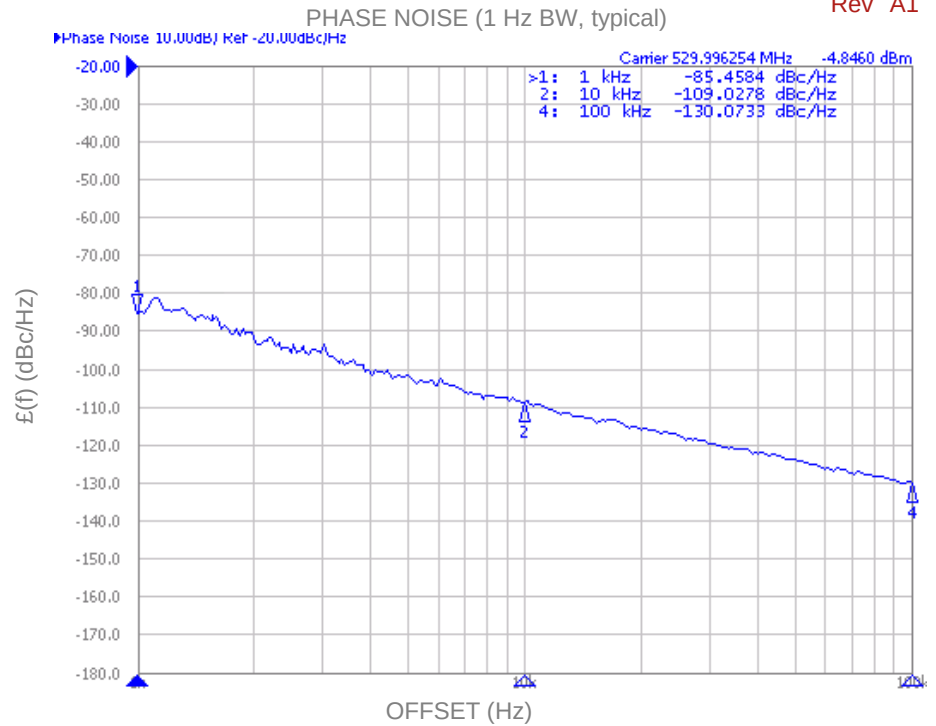
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Mobitex Radios
- RF Modems
- Satellite Communications

Application Notes

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



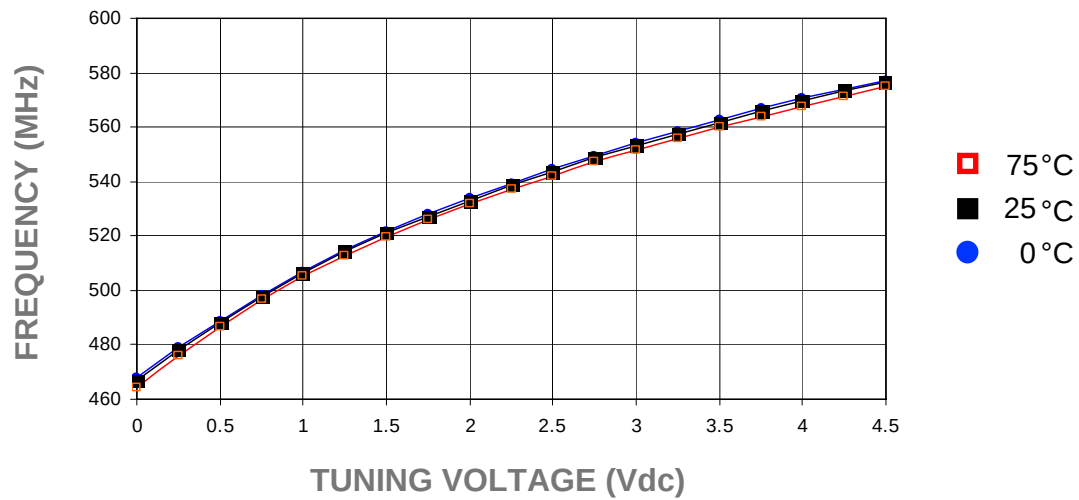
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	500		560	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-108		dBc/Hz
Harmonic Suppression (2nd)		-15	-13	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		25		MHz/V
Power Output	-2	0	2	dBm
Load Impedance		50		Ω
Input Capacitance			150	pF
Pushing			6	MHz/V
Pulling (12 dB Return Loss, Any Phase)			2	MHz
Operating Temperature Range	0		75	$^{\circ}\text{C}$
Package Style	MINI-16M-L			

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		2		Vdc
Supply Current (Icc)		11	14	mA

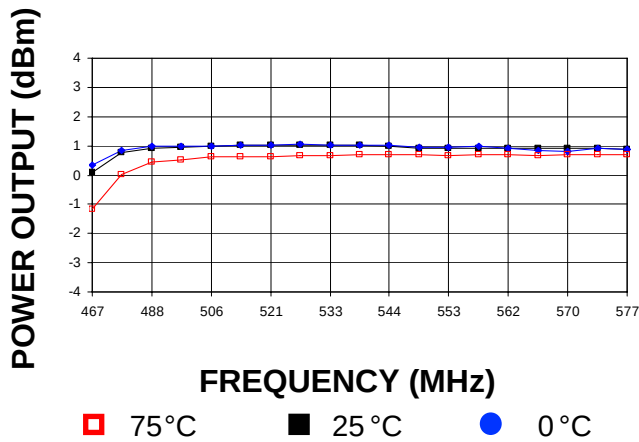
Additional Notes

Pin 4 is no connect or ground.

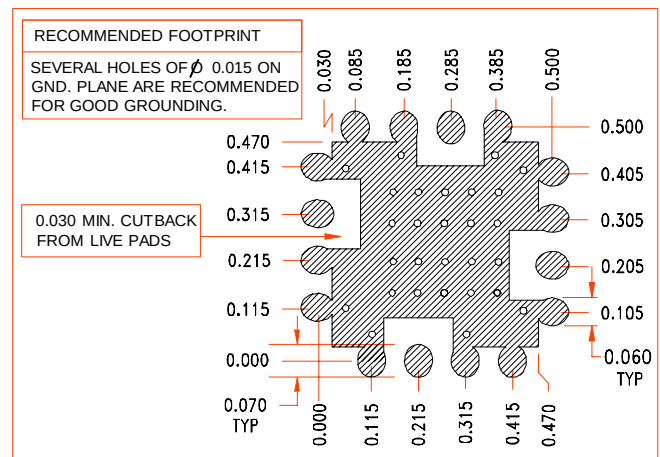
Tuning Curve, typ.



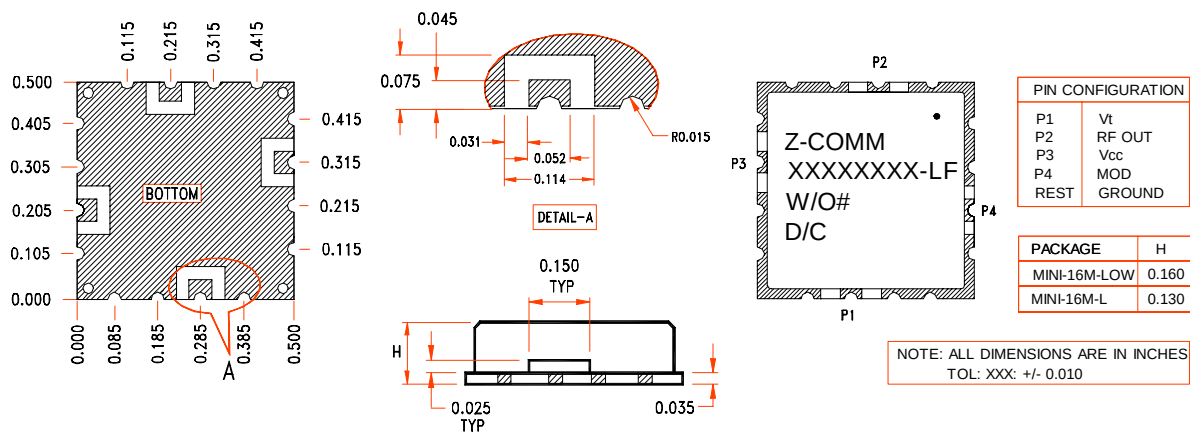
Power Curve, typ.



Footprint



Physical Dimensions



PIN CONFIGURATION	
P1	Vt
P2	RF OUT
P3	Vcc
P4	MOD
REST	GROUND

PACKAGE	H
MINI-16M-LOW	0.160
MINI-16M-L	0.130

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