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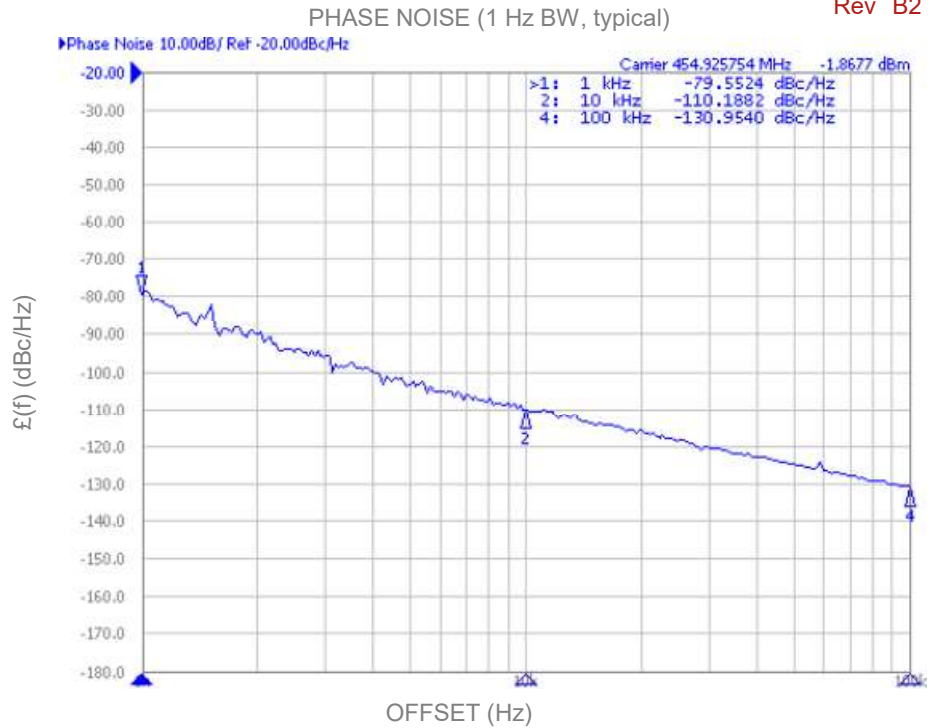
Voltage-Controlled Oscillator Surface Mount Module

Applications

UHF Radios
 Test Instrumentation
 Mobile Radios

Application Notes

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

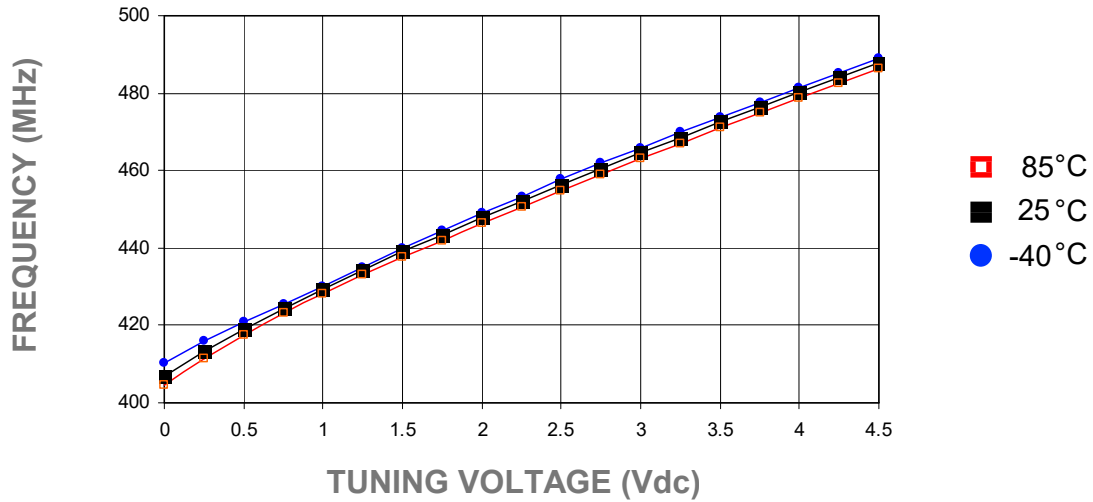


Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	440		470	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-109		dBc/Hz
Harmonic Suppression (2nd)		-13	-9	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		17		MHz/V
Power Output	0	2.5	5	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			4	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style		MINI-16M		

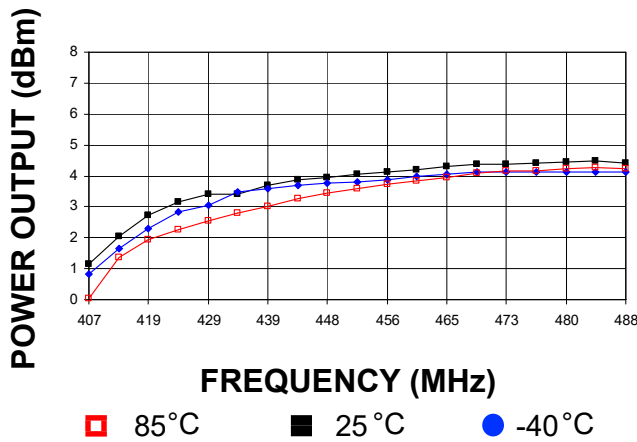
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		14	18	mA

Additional Notes

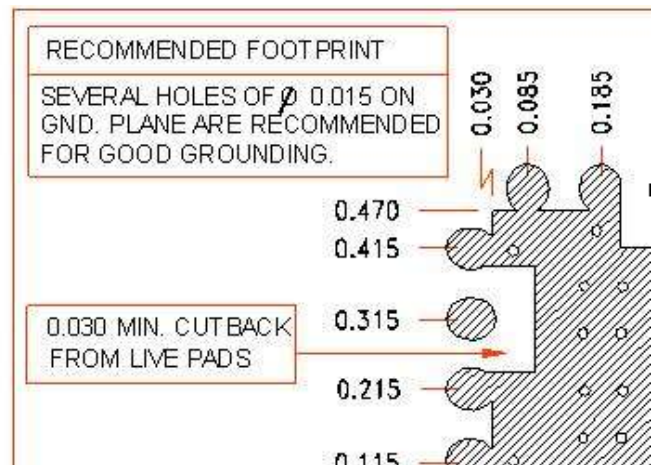
Tuning Curve, typ.



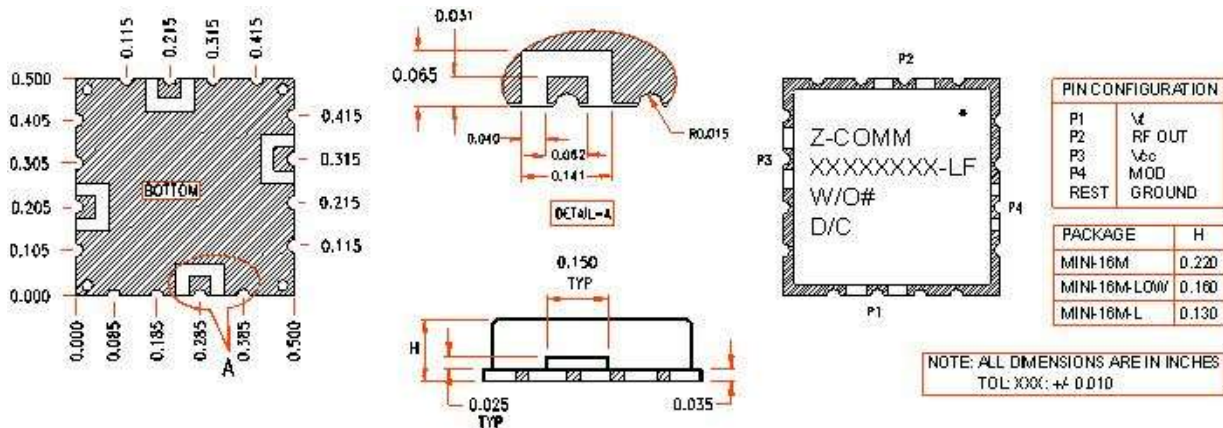
Power Curve, typ.



Footprint



Physical Dimensions



PIN CONFIGURATION	
P1	V _t
P2	RF OUT
P3	V _{cc}
P4	MOD
REST	GROUND

PACKAGE	H
MINI-16M	0.220
MINI-16M-LOWV	0.160
MINI-16M-L	0.130

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

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