

PHASE NOISE (1 Hz BW, typical)

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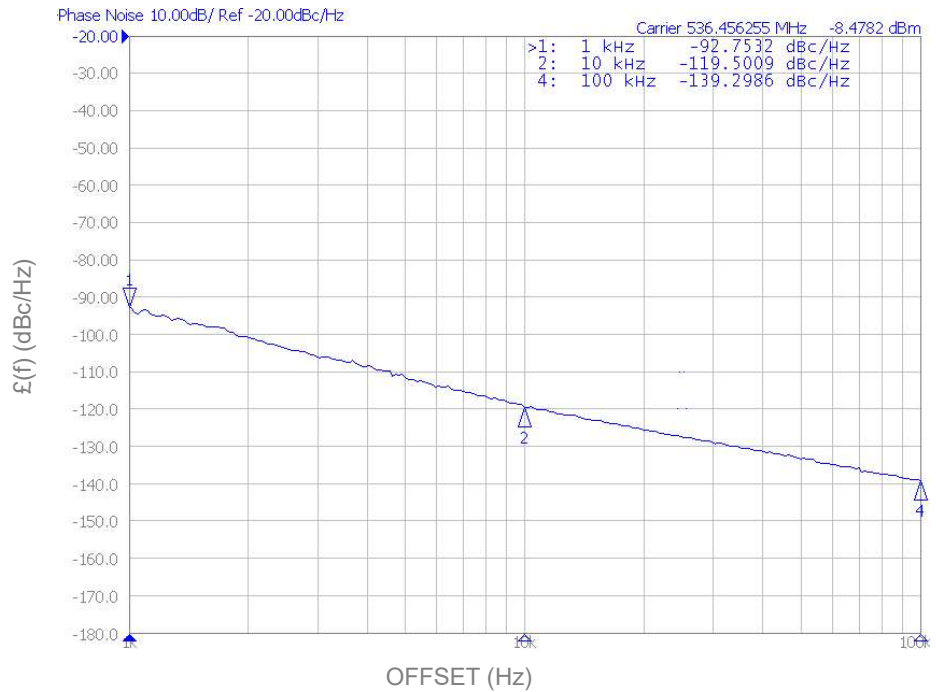
Voltage-Controlled Oscillator Surface Mount Module

Applications

Communication Systems
 Test Equipment

Application Notes

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



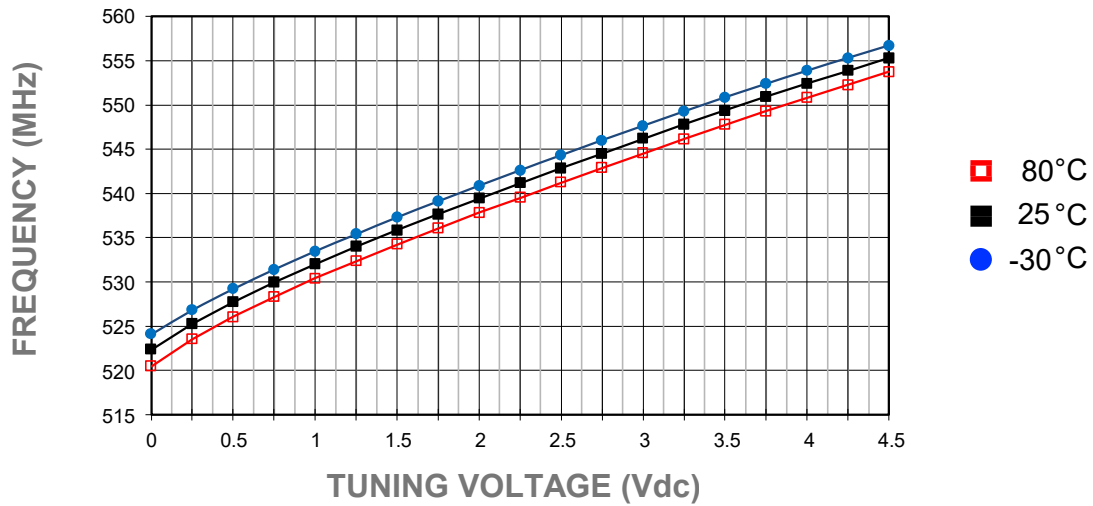
Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	530		543	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-120		dBc/Hz
Harmonic Suppression (2nd)		-20	-17	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		6		MHz/V
Power Output	-5	-2	1	dBm
Load Impedance		50		Ω
Input Capacitance			150	pF
Pushing			1	MHz/V
Pulling (14 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-30		80	$^{\circ}\text{C}$
Package Style	MINI-16M-LOW			

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		4.5		Vdc
Supply Current (Icc)		15	18	mA

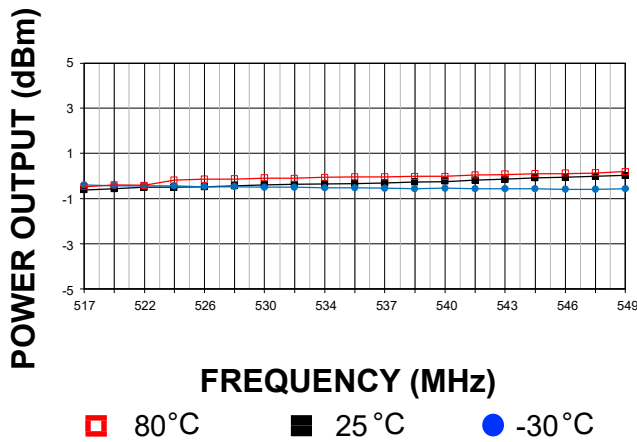
Additional Notes

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

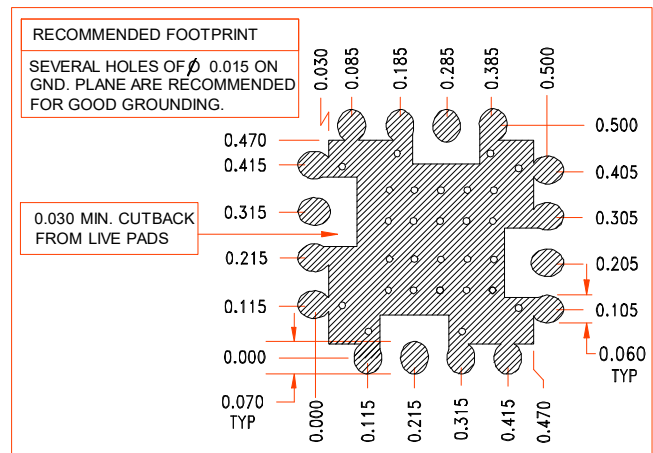
Tuning Curve, typ.



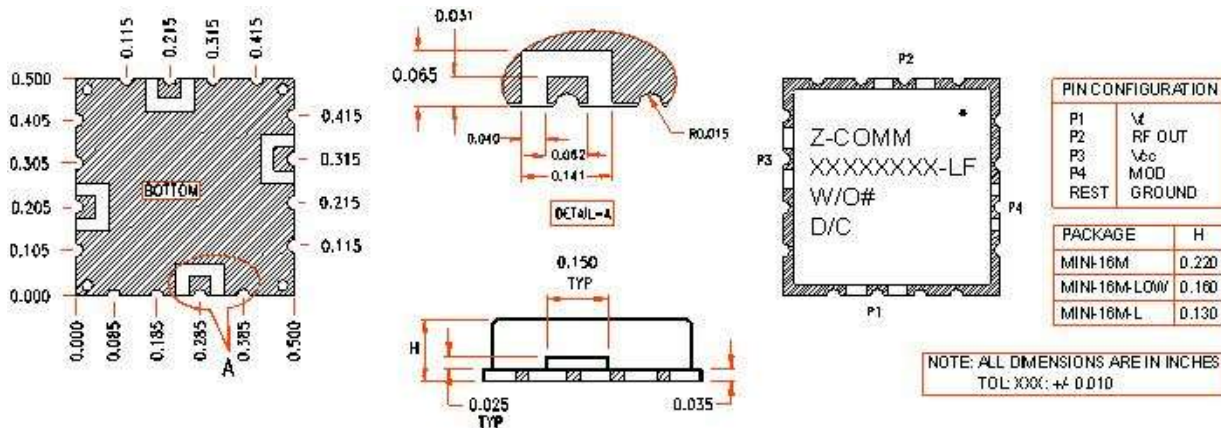
Power Curve, typ.



Footprint



Physical Dimensions



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

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