Z~Communications

V585ME14

Rev A1

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Voltage-Controlled Oscillator
Surface Mount Module

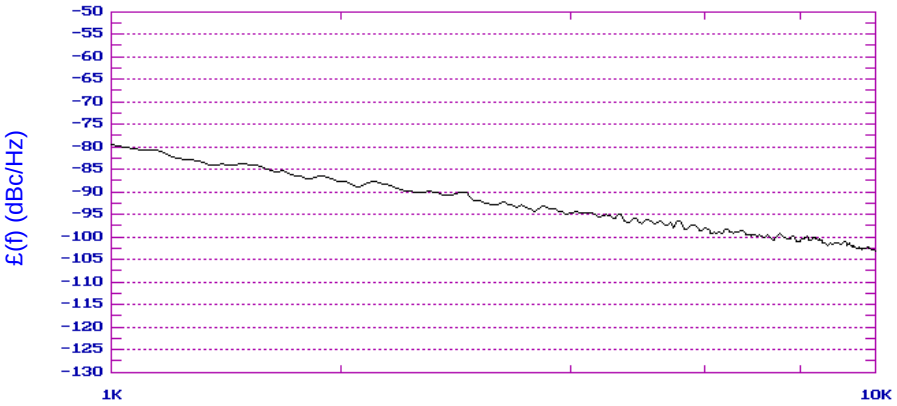
Applications

- Satellite Communications
- Test Instrumentation
- Cable Modems

Application Notes

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

PHASE NOISE (1 Hz BW, typical)



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	1470		1875	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-102		dBc/Hz
Harmonic Suppression (2nd)		-10		dBc
Tuning Voltage	0.8		20	Vdc
Tuning Sensitivity (avg.)		35		MHz/V
Power Output	4	6	8	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			5	MHz/V
Pulling (14 dB Return Loss, Any Phase)			15	MHz
Operating Temperature Range	0		80	°C
Package Style		MINI-14S		

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		10		Vdc
Supply Current (Icc)		15	18	mA

Additional Notes

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

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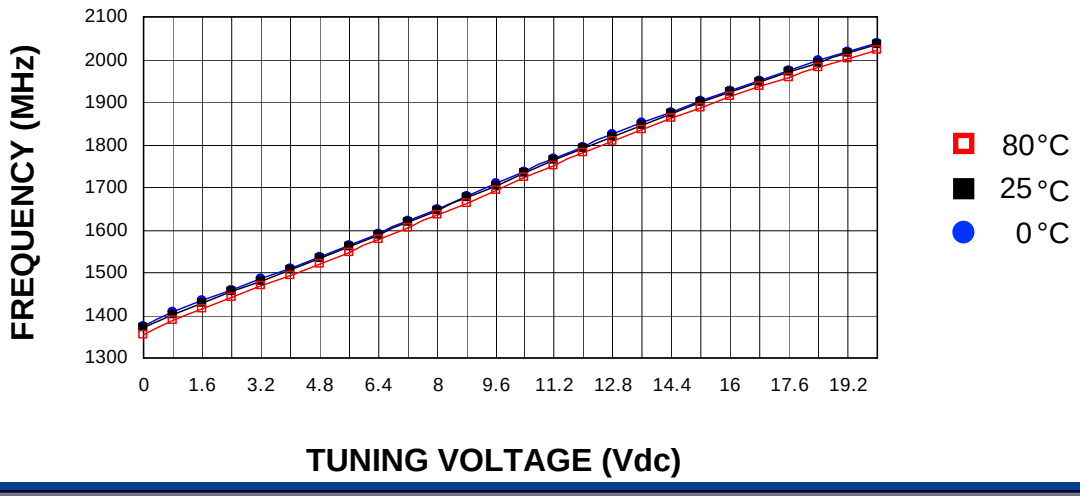
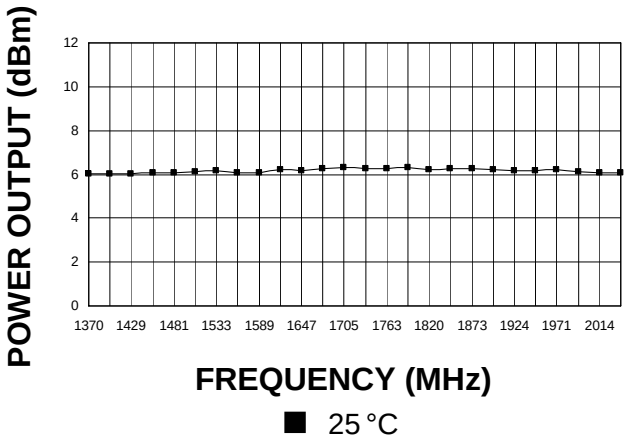
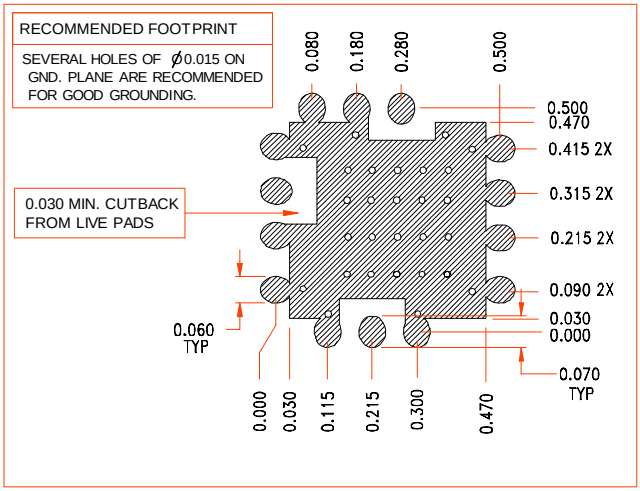
Tuning Curve, typ.



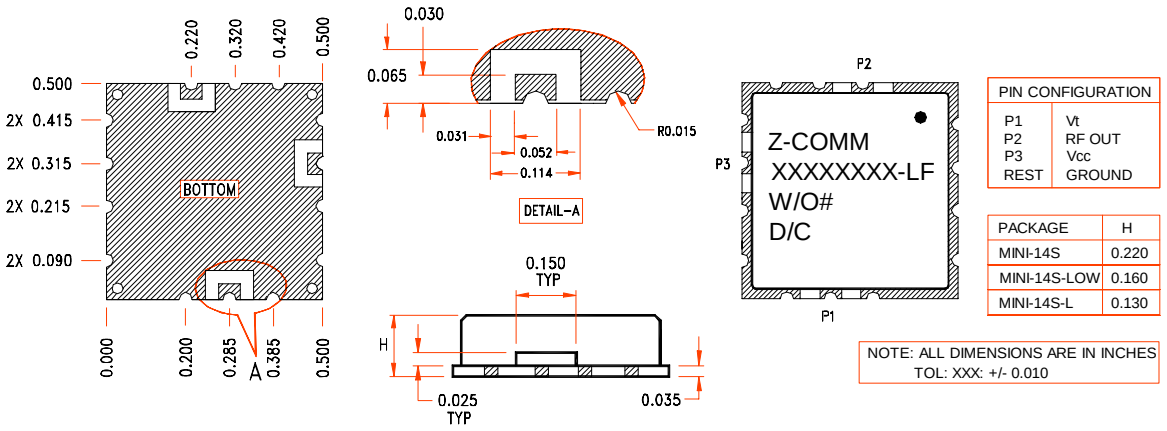
Power Curve, typ.



Footprint



Physical Dimensions



PIN CONFIGURATION	
P1	Vt
P2	RF OUT
P3	Vcc
REST	GROUND

PACKAGE	H
MINI-14S	0.220
MINI-14S-LOW	0.160
MINI-14S-L	0.130

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

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