V846ME24-LF

Rev A1

14118 Stowe Drive, Suite B
Poway, CA 92064
TEL: (858) 621-2700 | FAX: (858) 486-1927
URL: www.zcomm.com
EMAIL: applications@zcomm.com

Voltage-Controlled Oscillator Surface Mount Module

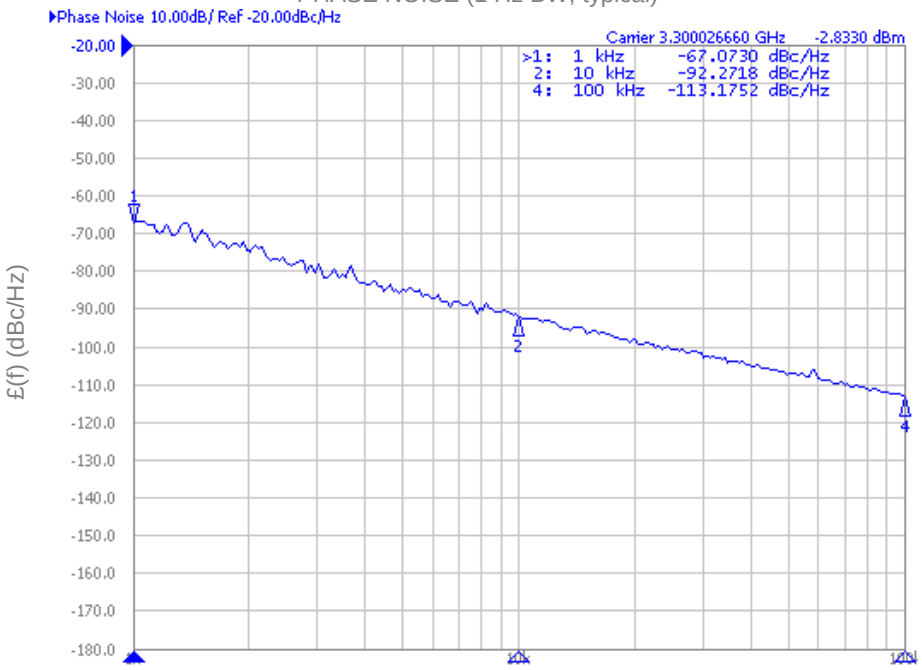
Applications

- Direct Broadcast
- Up/Down Converters
-

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	3100		3500	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-89		dBc/Hz
Harmonic Suppression (2nd)		-20	-18	dBc
Tuning Voltage	1		12	Vdc
Tuning Sensitivity (avg.)		62		MHz/V
Power Output	0	3	6	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			10	MHz/V
Pulling (12 dB Return Loss, Any Phase)			10	MHz
Operating Temperature Range	-30		80	°C
Package Style		MINI-14H-L		

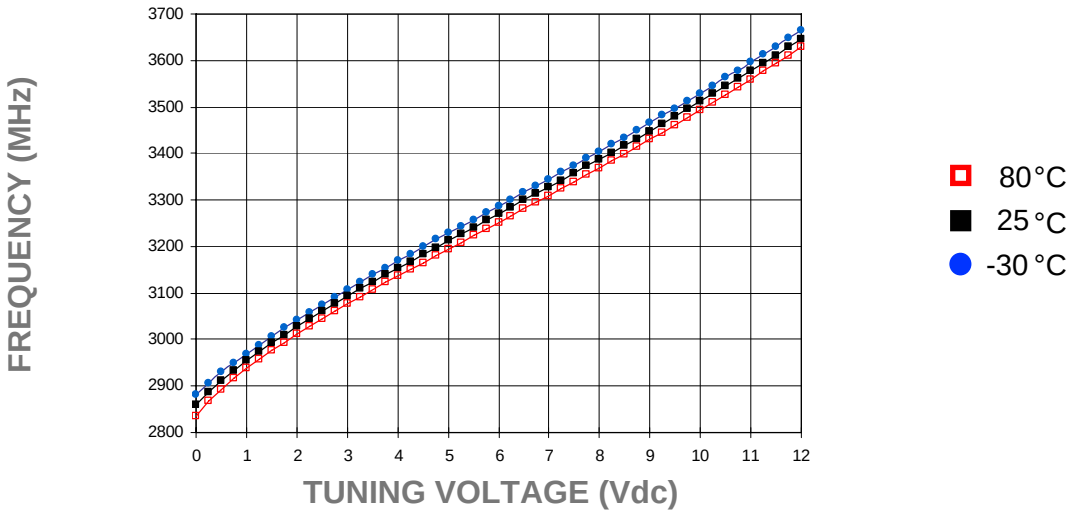
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		22	27	mA

Additional Notes

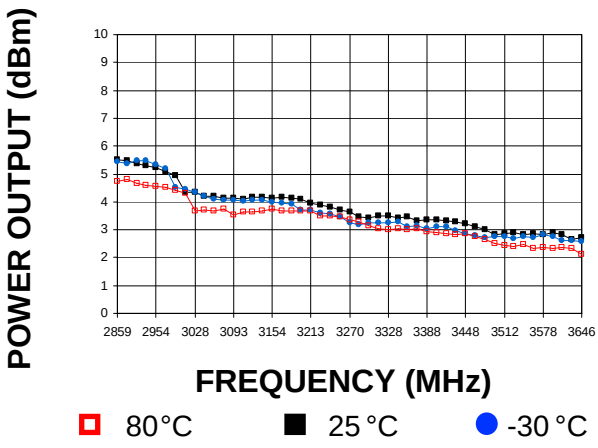
LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

© Z-Communications, Inc. All Rights Reserved.

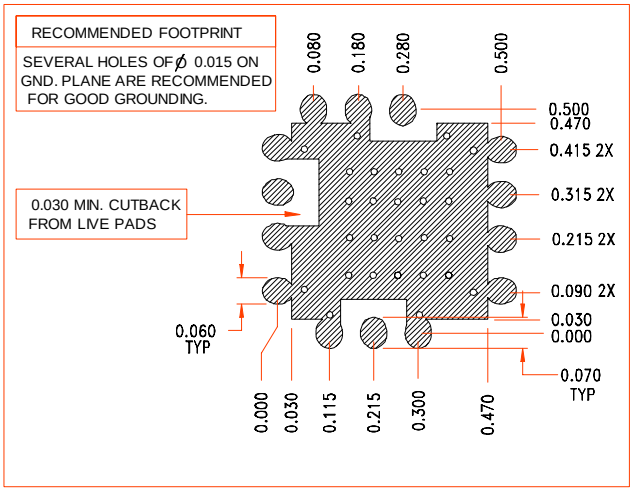
Tuning Curve, typ.



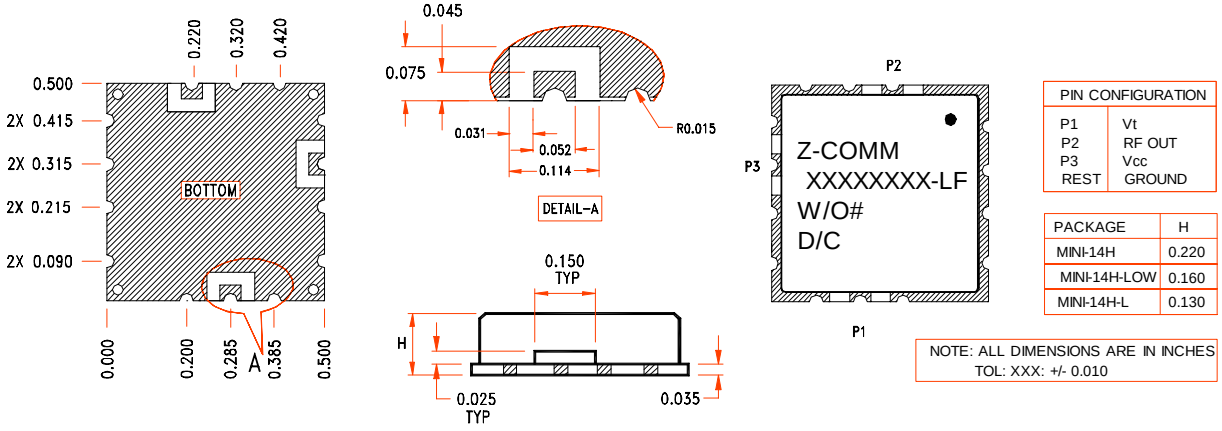
Power Curve, typ.



Footprint



Physical Dimensions



PIN CONFIGURATION	
P1	Vt
P2	RF OUT
P3	Vcc
REST	GROUND

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

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

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

© Z-Communications, Inc. All Rights Reserved.