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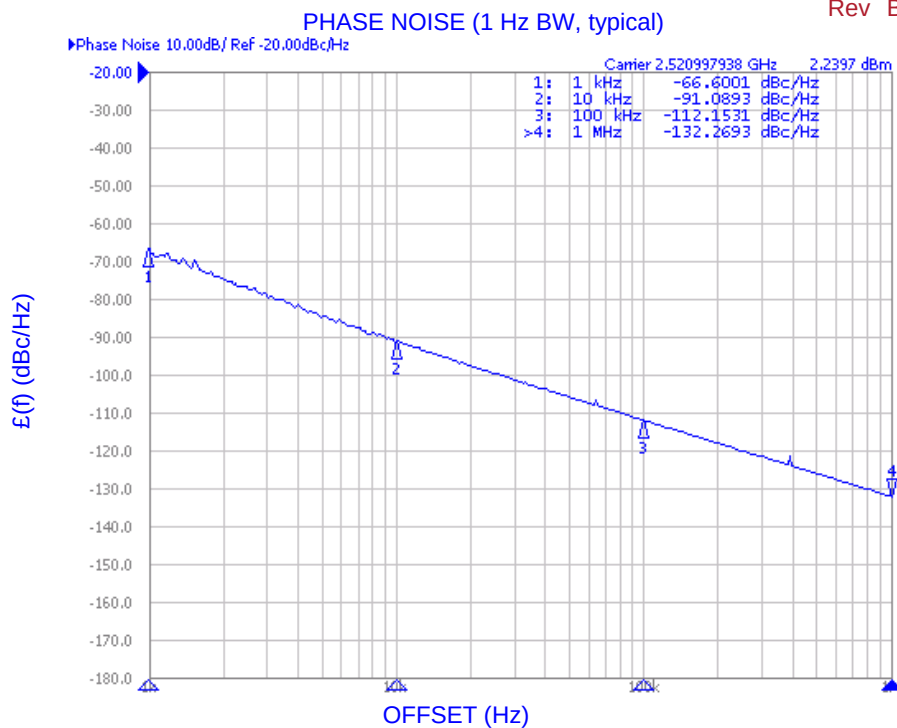
Voltage-Controlled Oscillator Surface Mount Module

Applications

- Earth Station
- PCN Base Station
-

Application Notes

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



Performance Specifications

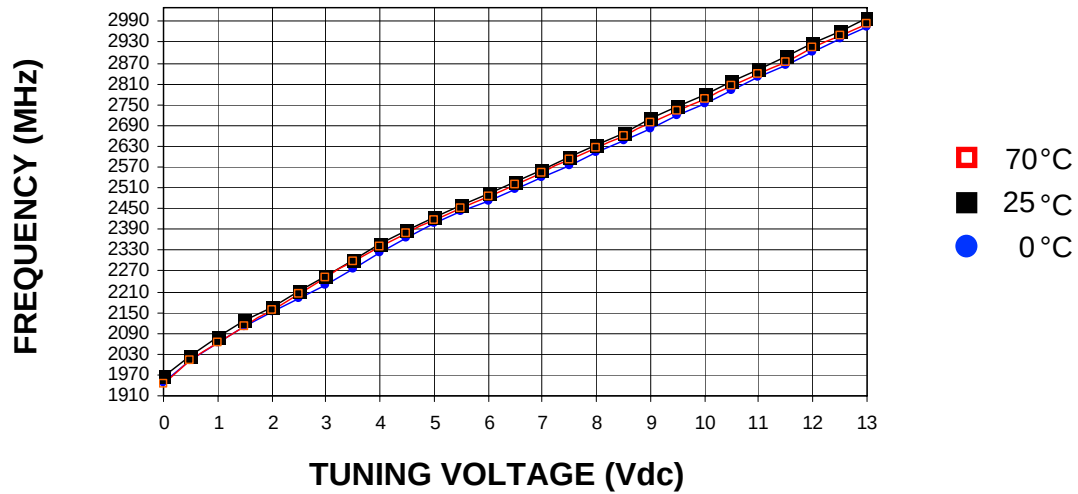
	Min	Typ	Max	Units
Oscillation Frequency Range	2221		2821	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-90		dBc/Hz
Harmonic Suppression (2nd)		-8		dBc
Tuning Voltage	2		13	Vdc
Tuning Sensitivity (avg.)		73		MHz/V
Power Output	6.5	9.25	12	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			4	MHz/V
Pulling (14 dB Return Loss, Any Phase)			16	MHz
Operating Temperature Range	0		70	$^{\circ}\text{C}$
Package Style		MINI-14S		

Power Supply Requirements

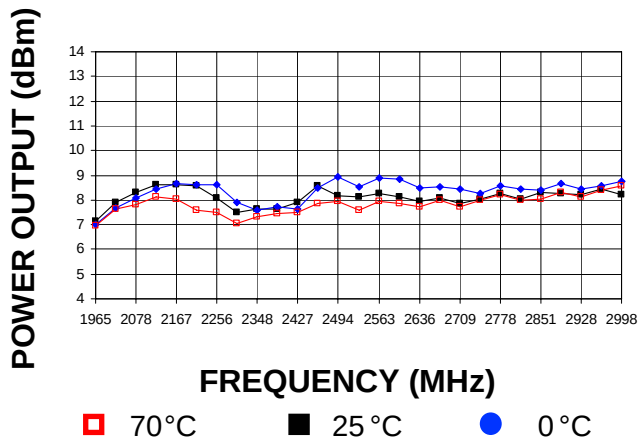
	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		12		Vdc
Supply Current (Icc)		16	19	mA

Additional Notes

Tuning Curve, typ.



Power Curve, typ.

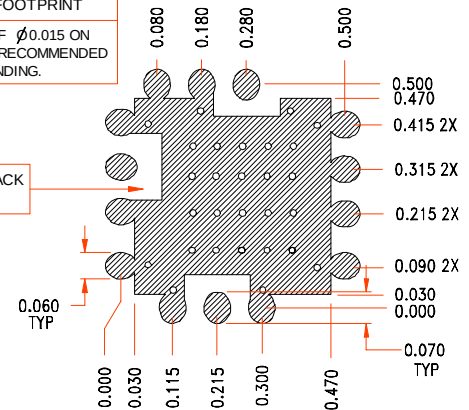


Footprint

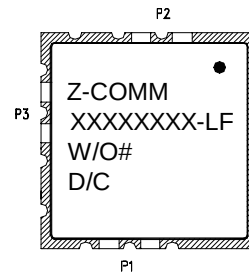
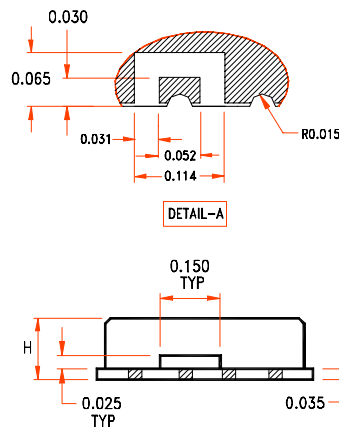
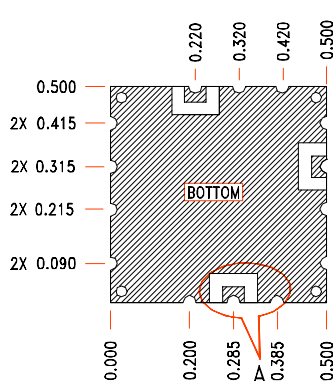
RECOMMENDED FOOTPRINT

SEVERAL HOLES OF $\phi 0.015$ ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS



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