

PHASE NOISE (1 Hz BW, typical)

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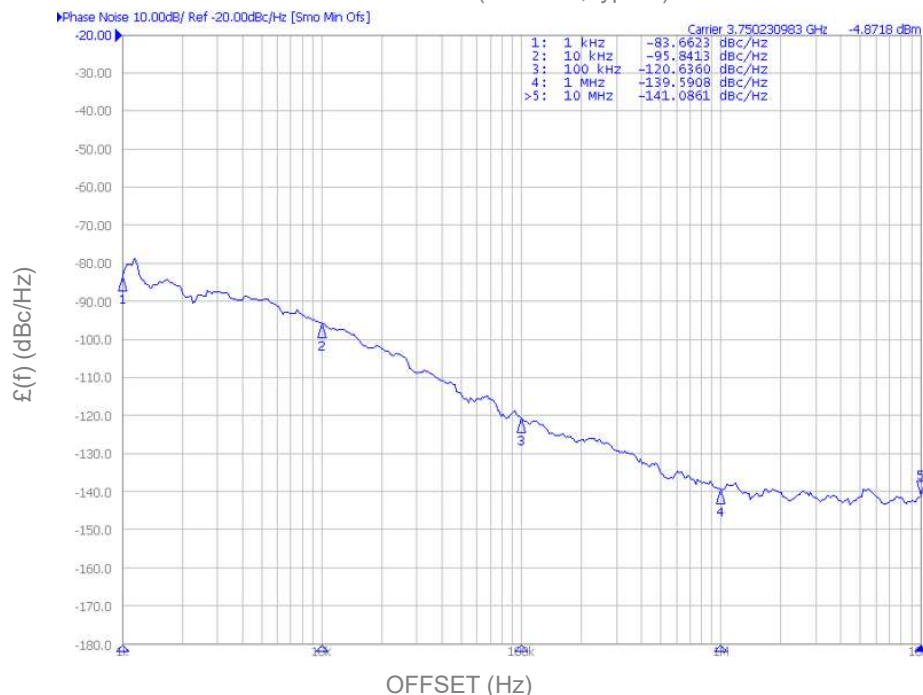
Voltage-Controlled Oscillator Surface Mount Module

Applications

Radar

Application Notes

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

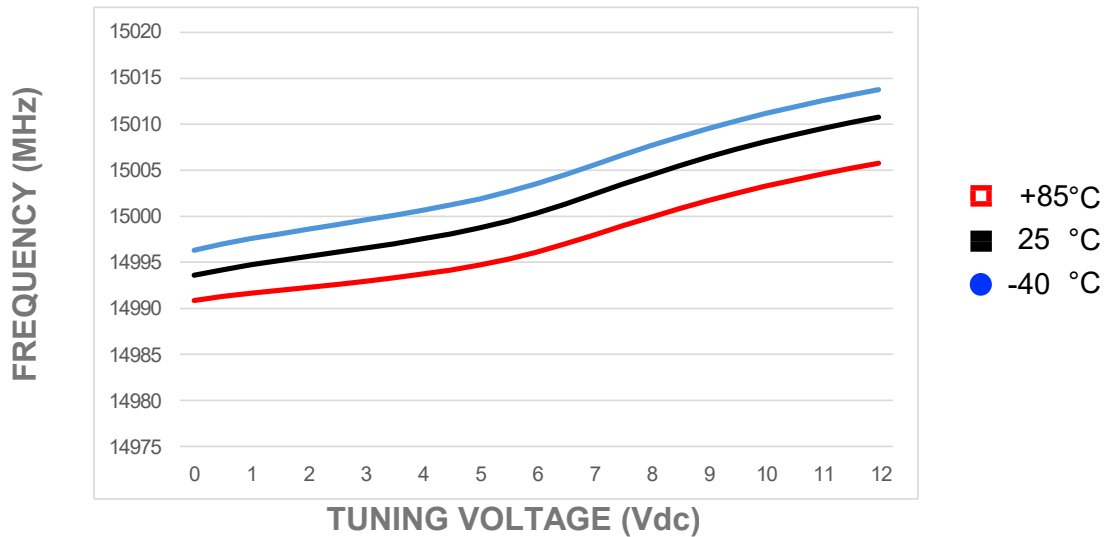


Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	15000		15000	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-96		dBc/Hz
Harmonic Suppression (2nd)		-30	-20	dBc
Tuning Voltage	0		12	Vdc
Tuning Sensitivity (avg.)		2		MHz/V
Power Output	0	2	4	dBm
Load Impedance		50		Ω
Input Capacitance		100		pF
Pushing			1	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		+85	$^{\circ}\text{C}$
Package Style		SDRO		

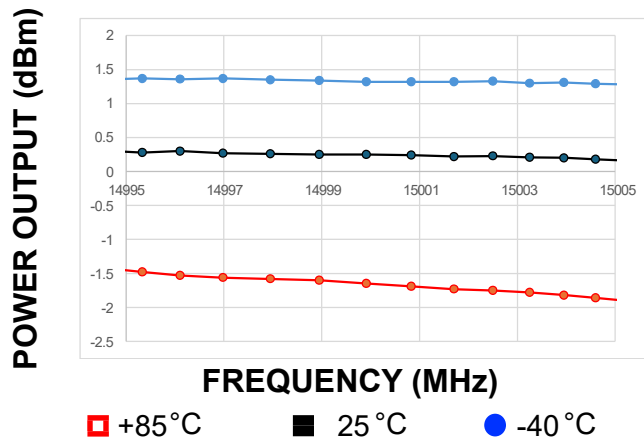
Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		26	30	mA

Additional Notes

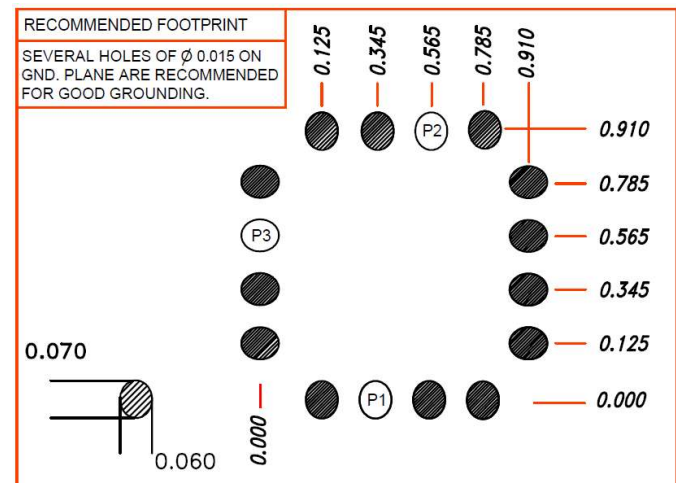
Tuning Curve, typ.



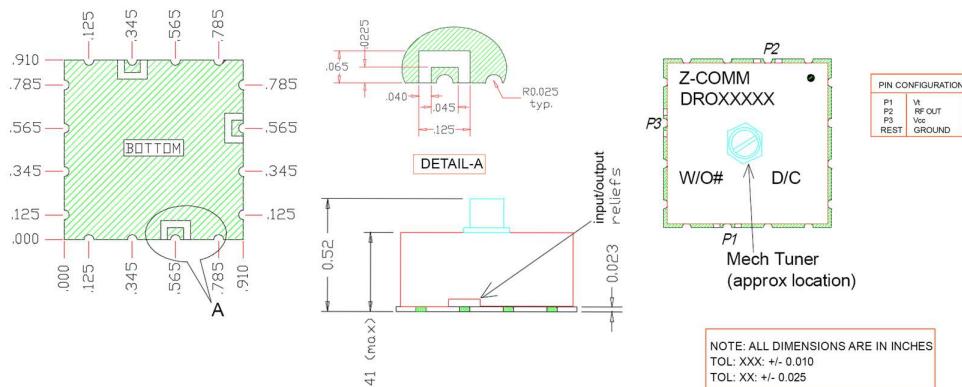
Power Curve, typ.



Footprint



Physical Dimensions



Note: It is not recommended to solder the ground plane under the DRO. Only the outside castellations require soldering for assembly.

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