ZRO0743B2LF

Rev B2

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Voltage-Controlled Oscillator Surface Mount Module

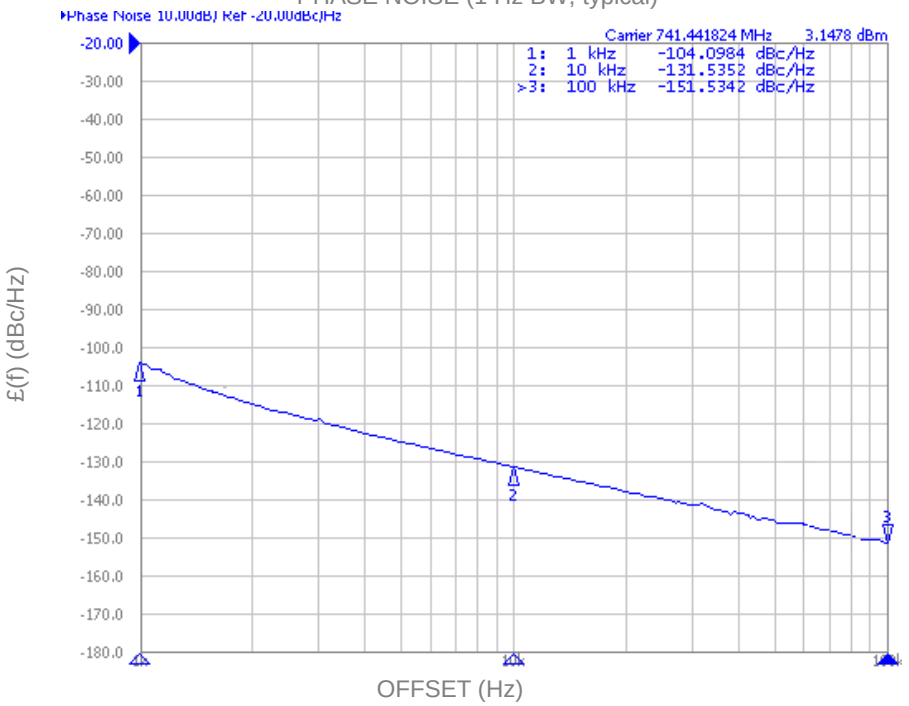
Applications

- Digital communication systems
- Downconverters
-

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	738		748	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-130		dBc/Hz
Harmonic Suppression (2nd)		-24	-18	dBc
Tuning Voltage	0		6	Vdc
Tuning Sensitivity (avg.)		2		MHz/V
Power Output	7	9	11	dBm
Load Impedance		50		Ω
Input Capacitance			100	pF
Pushing			.06	MHz/V
Pulling (12 dB Return Loss, Any Phase)			.3	MHz
Operating Temperature Range	-40		85	°C
Package Style		ZMX-14-SM		

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		8		Vdc
Supply Current (Icc)		23	28	mA

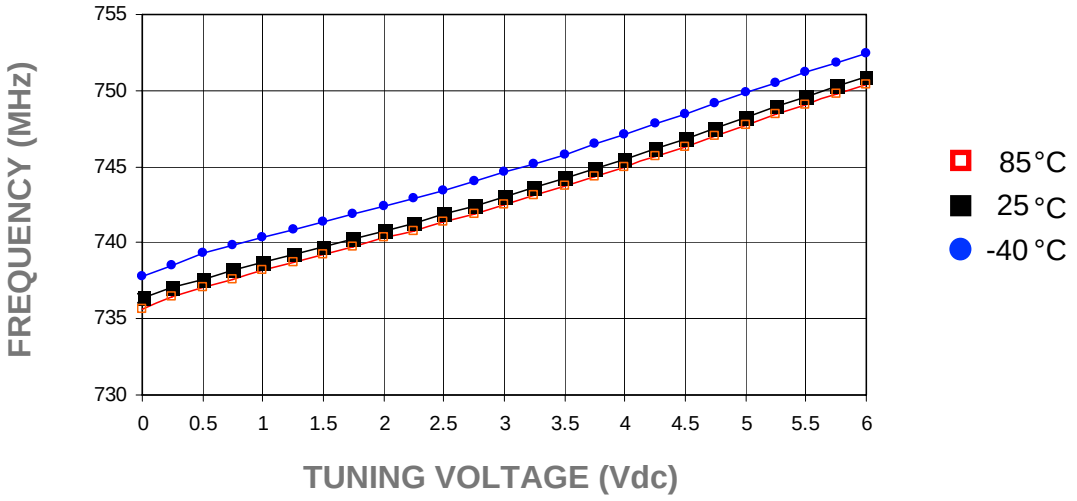
Additional Notes

Phase Noise @ 1 kHz offset (1 Hz BW) -104 (typ) dBc/Hz
Phase Noise @ 100 kHz offset (1 Hz BW) -151 (typ) dBc/Hz

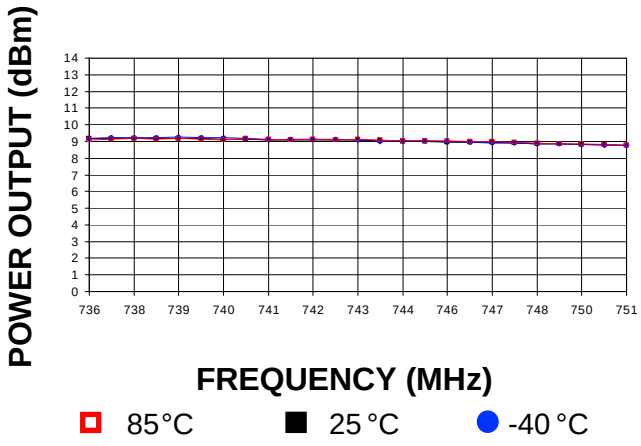
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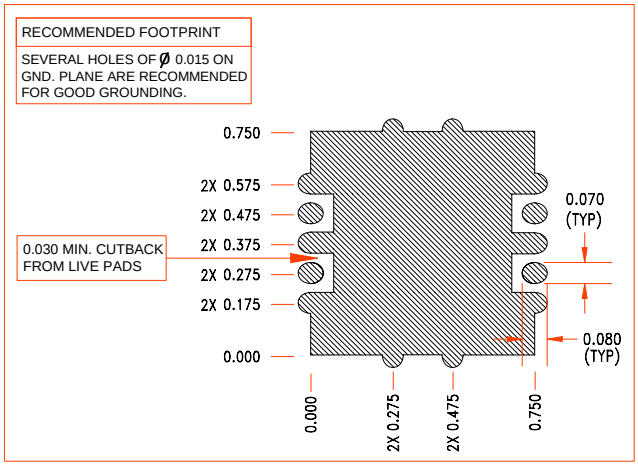
Tuning Curve, typ.



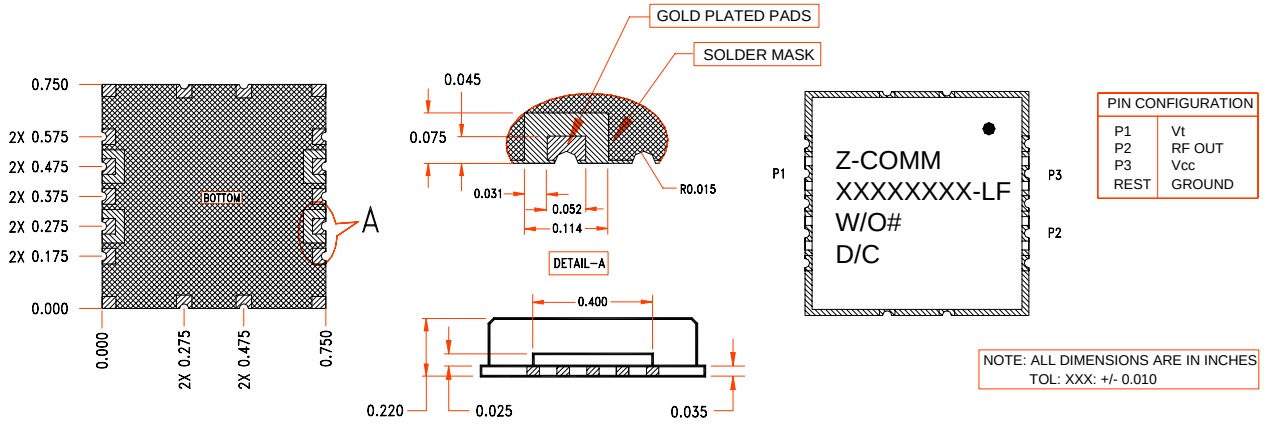
Power Curve, typ.



Footprint



Physical Dimensions



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