ZRO0800A1

Rev A1

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Voltage-Controlled Oscillator Surface Mount Module

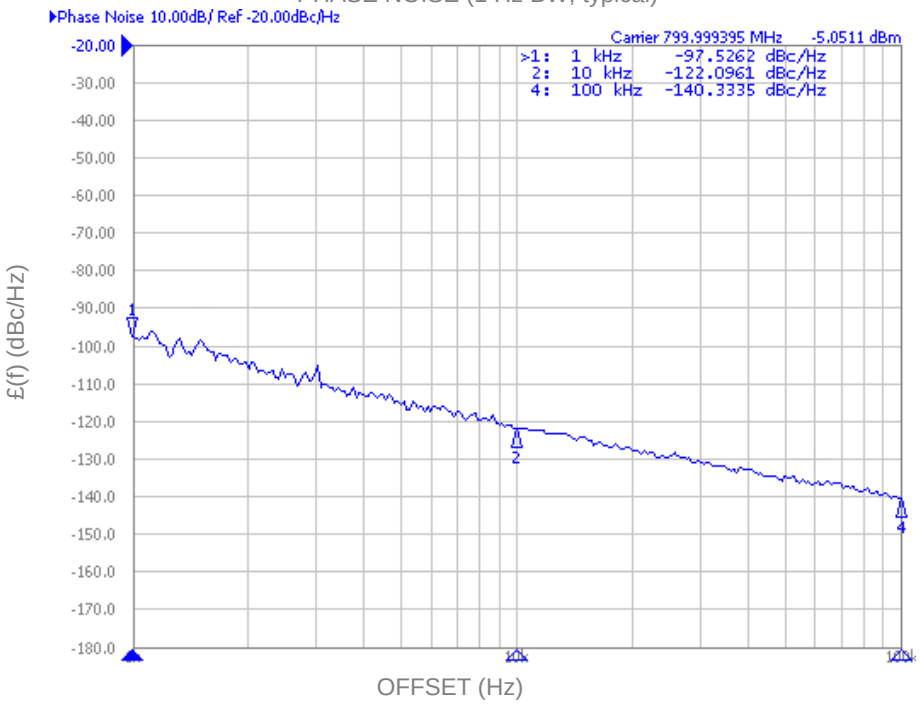
Applications

- Satellite Communication Systems
- Digital Radio Equipment
- Fixed Wireless

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	800		800	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-122		dBc/Hz
Harmonic Suppression (2nd)		-20	-18	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		5		MHz/V
Power Output	0	3	6	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			1	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	°C
Package Style		MINI-16-SM		

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		13	16	mA

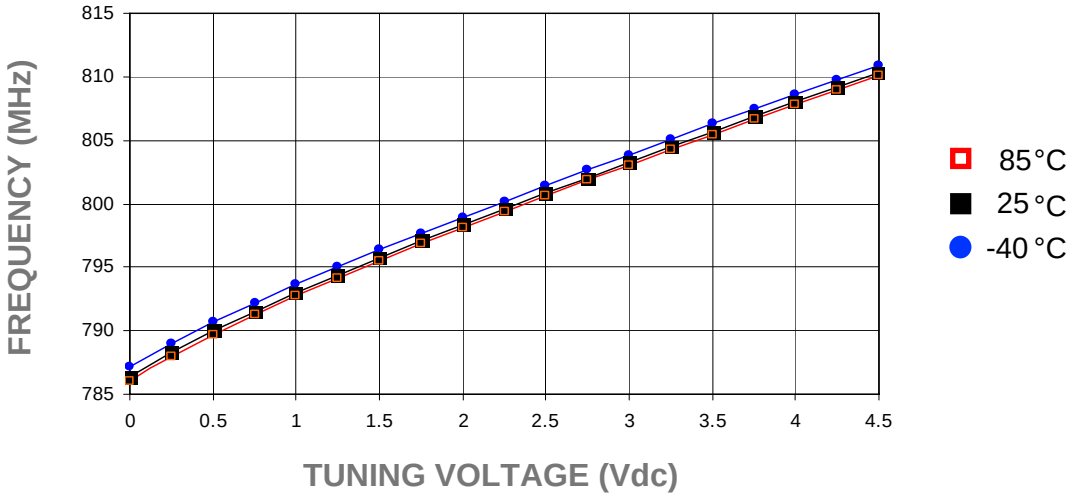
Additional Notes

Phase Noise @ 1 kHz offset (1 Hz BW) -95 (typ) dBc/Hz
Phase Noise @ 100 kHz offset (1 Hz BW) -140 (typ) dBc/Hz

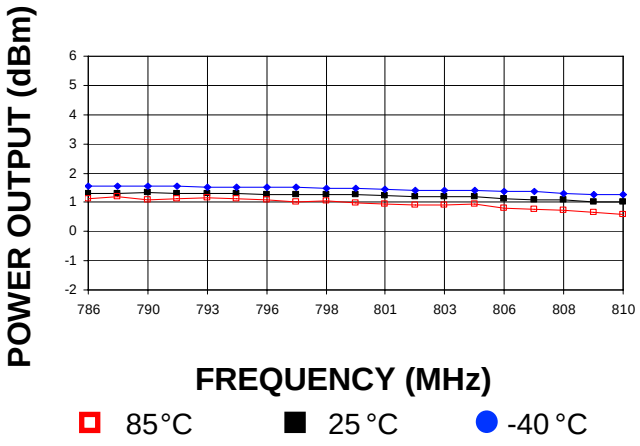
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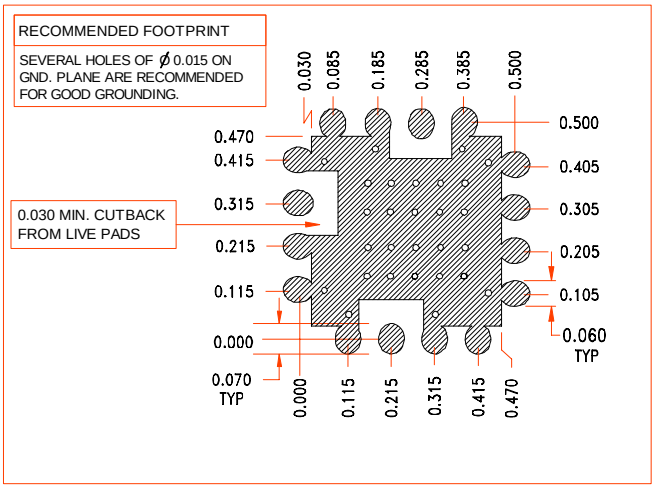
Tuning Curve, typ.



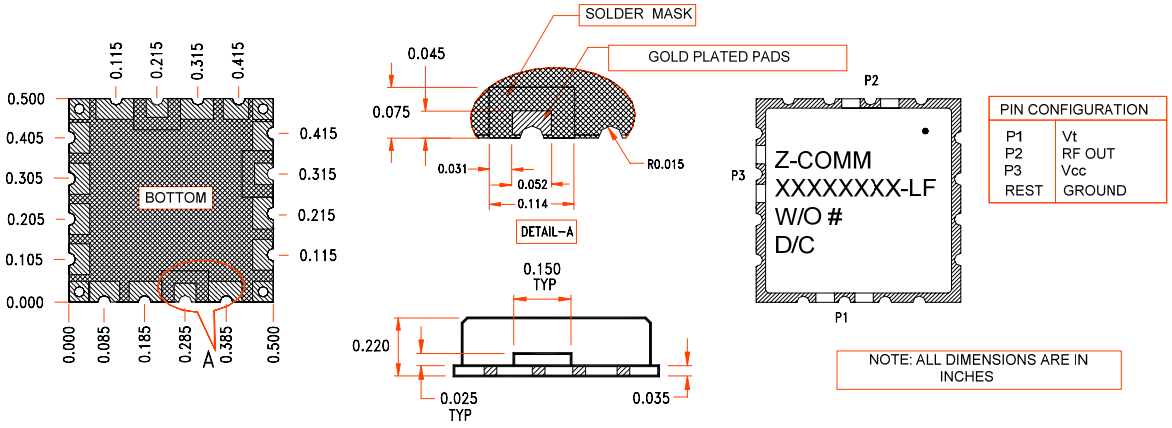
Power Curve, typ.



Footprint



Physical Dimensions



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