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Voltage-Controlled Oscillator Surface Mount Module

Applications

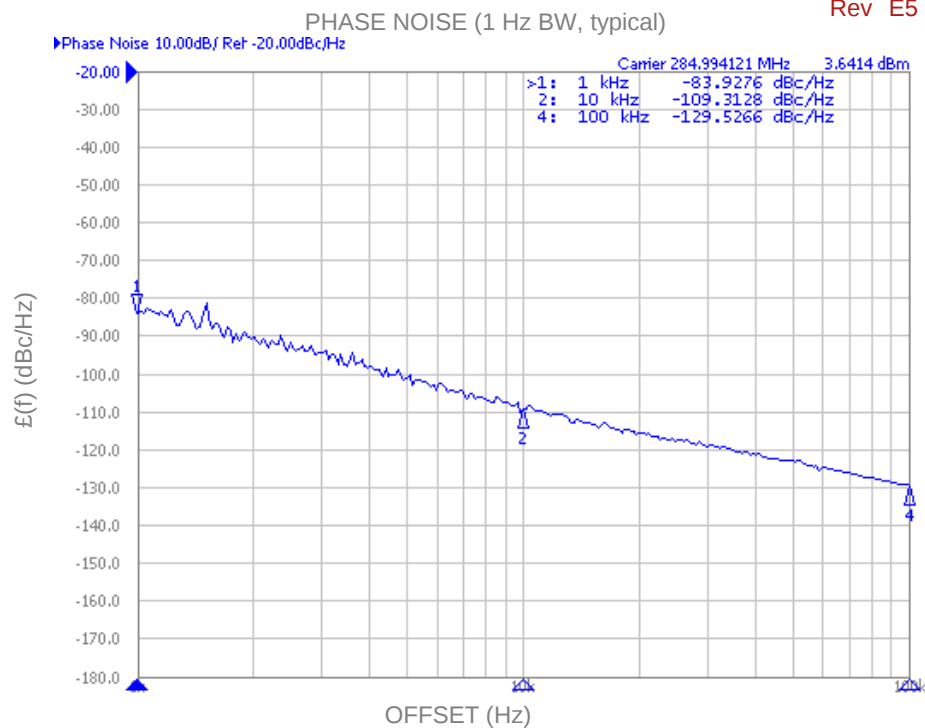
- Satellite Modems
- Mobile Radios
- Earthstations

Application Notes

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

V285ME01-LF

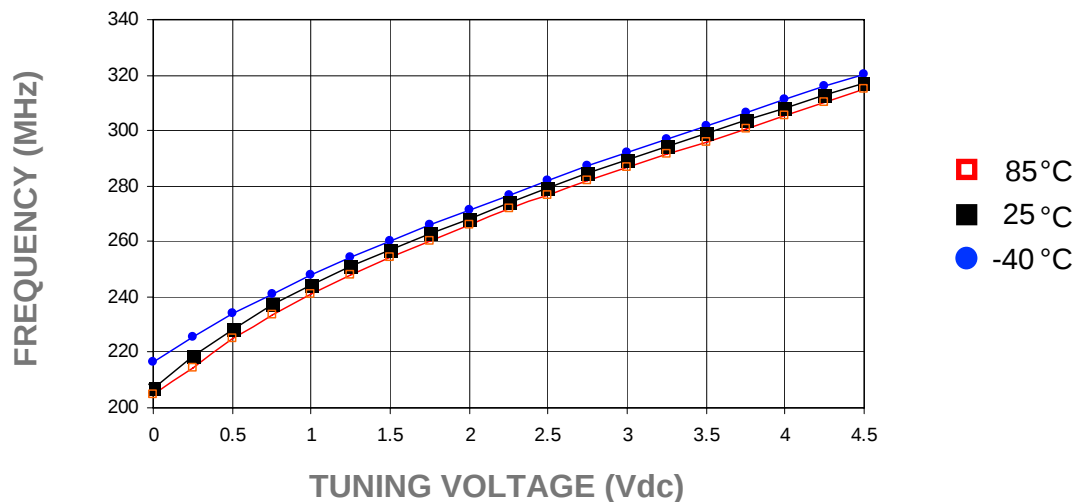
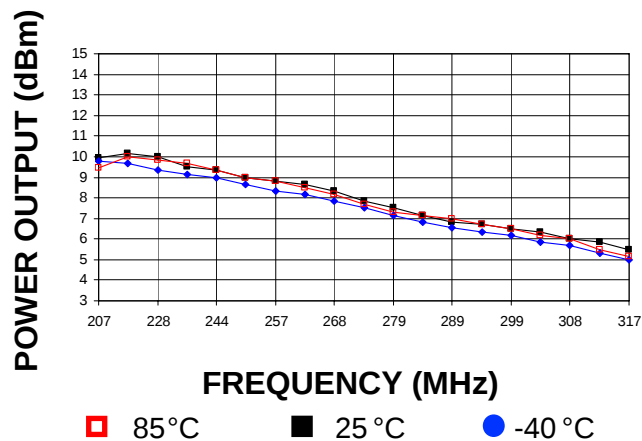
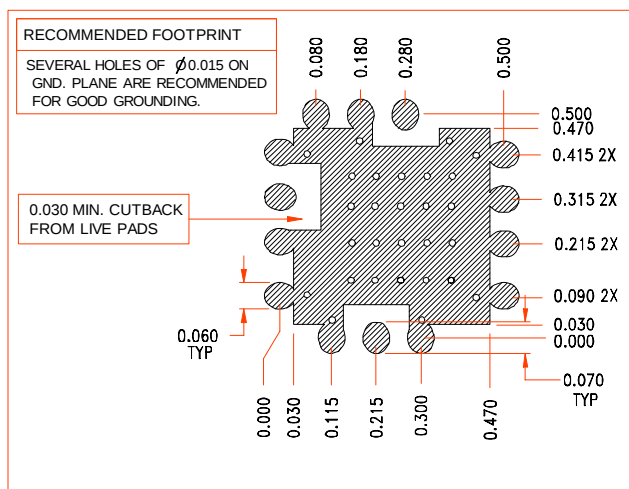
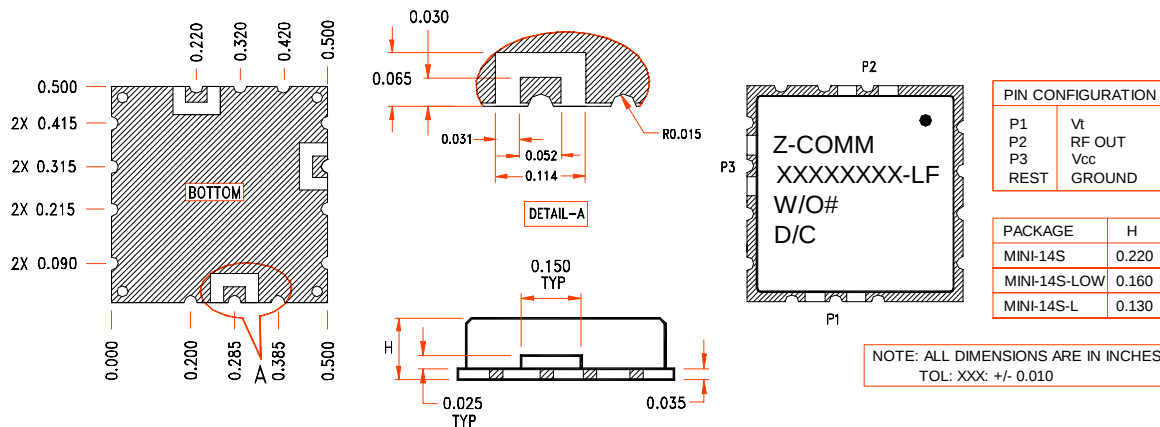
Rev E5



Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	270		300	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-109		dBc/Hz
Harmonic Suppression (2nd)		-15	-10	dBc
Tuning Voltage	0.5		4.5	Vdc
Tuning Sensitivity (avg.)		20		MHz/V
Power Output	5	7.5	10	dBm
Load Impedance		50		Ω
Input Capacitance			200	pF
Pushing			3	MHz/V
Pulling (12 dB Return Loss, Any Phase)			1	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-14S			

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		5		Vdc
Supply Current (Icc)		22	26	mA

Additional Notes

Tuning Curve, typ.

Power Curve, typ.

Footprint

Physical Dimensions


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