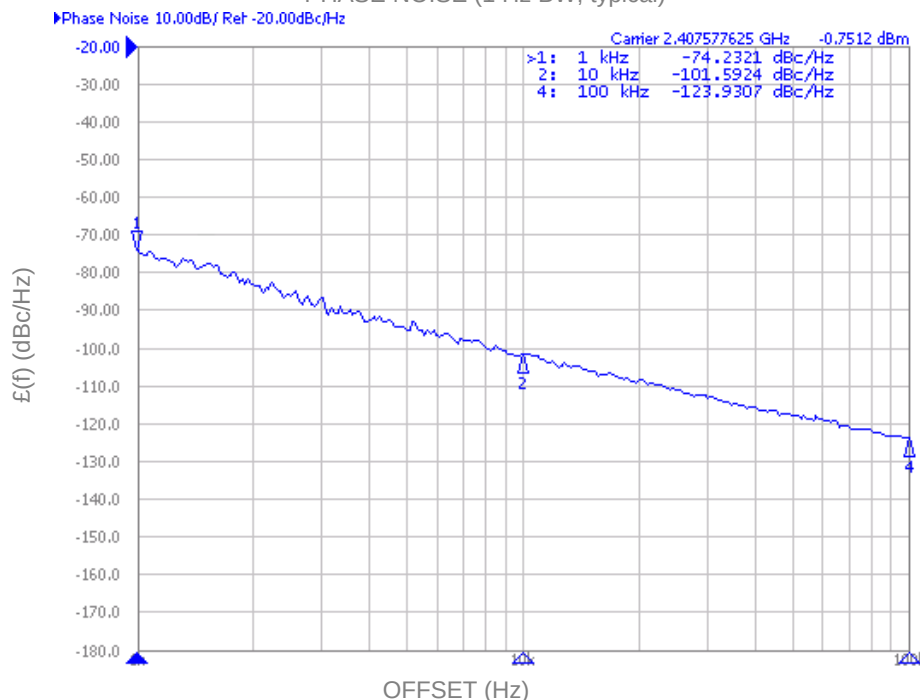


PHASE NOISE (1 Hz BW, typical)



Voltage-Controlled Oscillator Surface Mount Module

Applications

- Earthstations
- Test Equipment
- Satellite Modems

Application Notes

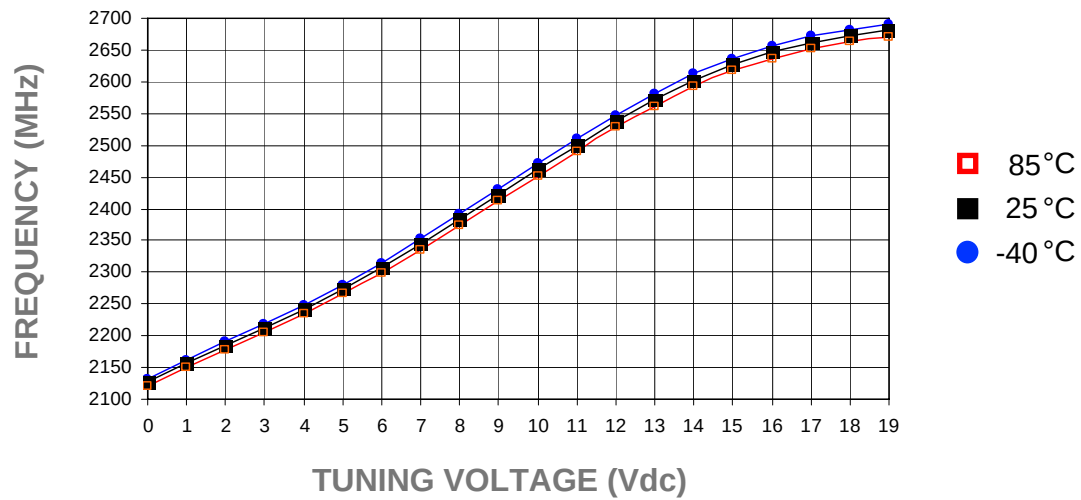
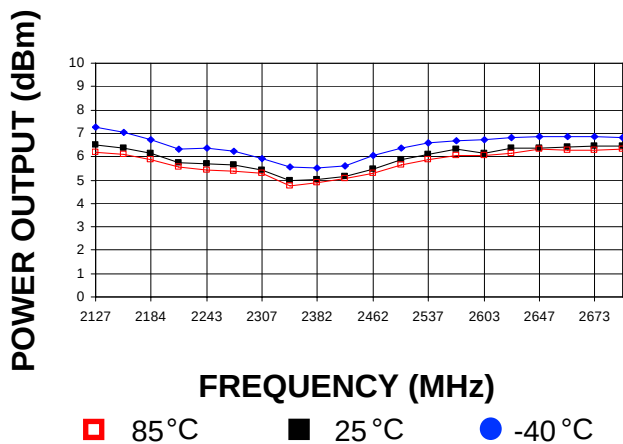
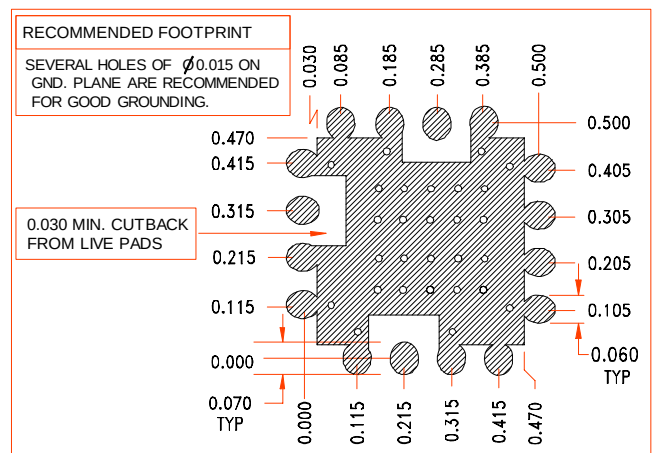
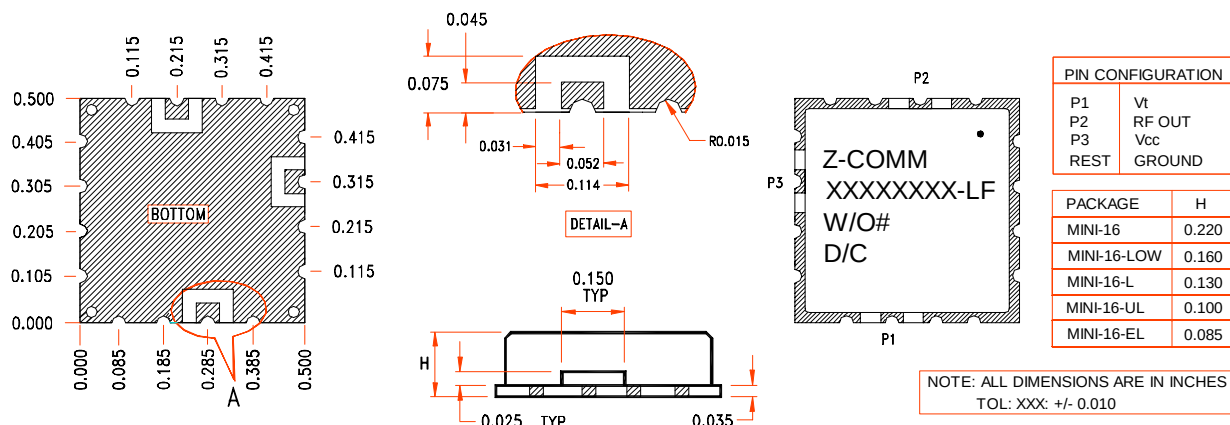
- AN-101: Mounting and Grounding
- AN-102: Output Loading
- AN-107: Manual Soldering

Performance Specifications	Min	Typ	Max	Units
Oscillation Frequency Range	2165		2650	MHz
Phase Noise @ 10 kHz offset (1 Hz BW)		-101		dBc/Hz
Harmonic Suppression (2nd)		-18	-15	dBc
Tuning Voltage	0.5		19	Vdc
Tuning Sensitivity (avg.)		32		MHz/V
Power Output	2	5	8	dBm
Load Impedance		50		Ω
Input Capacitance			50	pF
Pushing			4	MHz/V
Pulling (12 dB Return Loss, Any Phase)			4	MHz
Operating Temperature Range	-40		85	$^{\circ}\text{C}$
Package Style	MINI-16-LOW			

Power Supply Requirements	Min	Typ	Max	Units
Supply Voltage (Vcc, nom.)		12		Vdc
Supply Current (Icc)		23	28	mA

Additional Notes

Typical Phase Noise: -74 dBc/Hz at 1KHz offset, -123 dBc/Hz at 100KHz offset, -142 dBc/Hz at 1MHz offset.
 Typical Pushing: 1.4 MHz/V

Tuning Curve, typ.

Power Curve, typ.

Footprint

Physical Dimensions


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