# Z~Communications

# V240ME04

Rev A1

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## Voltage-Controlled Oscillator
## Surface Mount Module

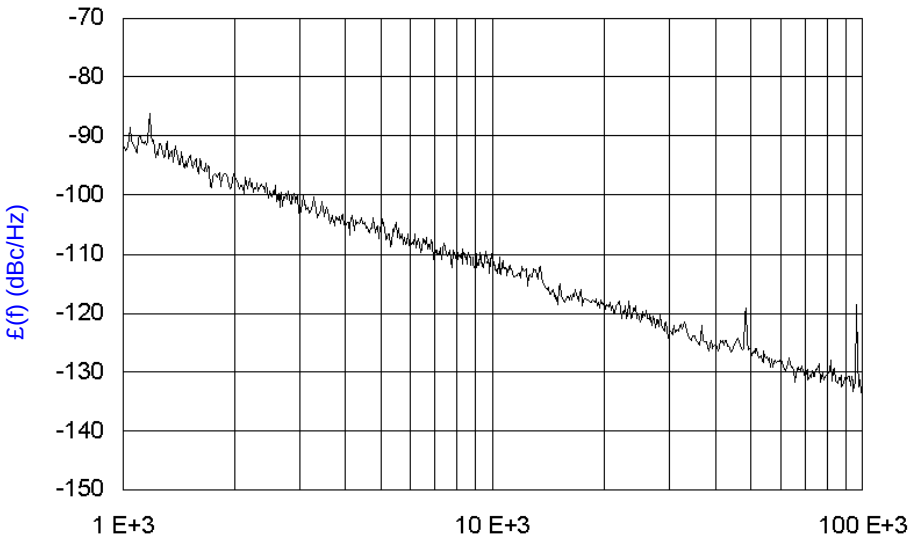
### Applications

- Base stations
- Microwave Radios
-

### 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 | 200 | | 300 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -110 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -9 | | dBc |
| Tuning Voltage | 1.5 | | 13.5 | Vdc |
| Tuning Sensitivity (avg.) | | 12 | | MHz/V |
| Power Output | 5 | 8.5 | 12 | dBm |
| Load Impedance | | 50 | | Ω |
| Input Capacitance | | | 200 | pF |
| Pushing | | | 1 | MHz/V |
| Pulling (14 dB Return Loss, Any Phase) | | | 1 | MHz |
| Operating Temperature Range | -10 | | 70 | °C |
| Package Style | | MINI-16 | | |

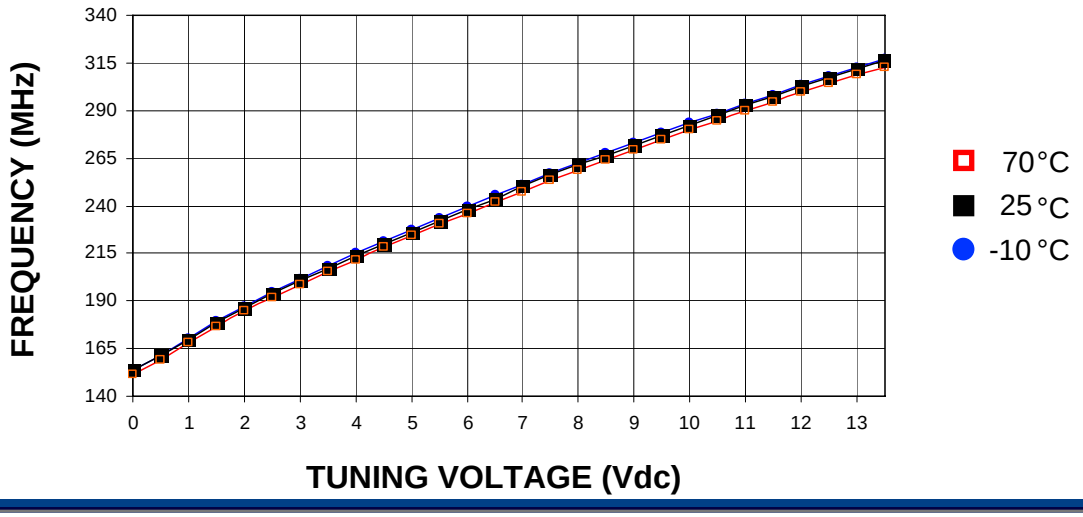
| Power Supply Requirements | Min | Typ | Max | Units |
|---|---|---|---|---|
| Supply Voltage (Vcc, nom.) | | 15 | | Vdc |
| Supply Current (Icc) | | 20 | 28 | mA |

### Additional Notes

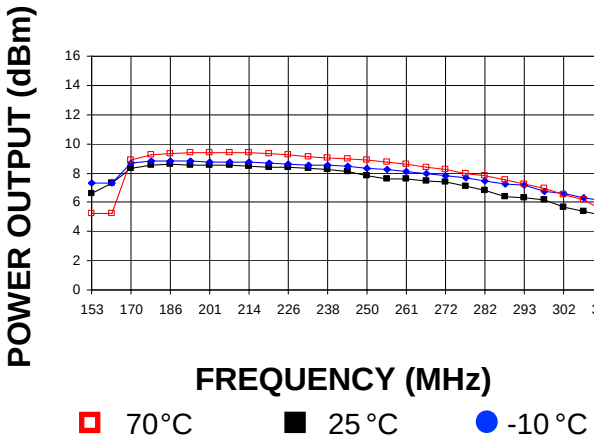
LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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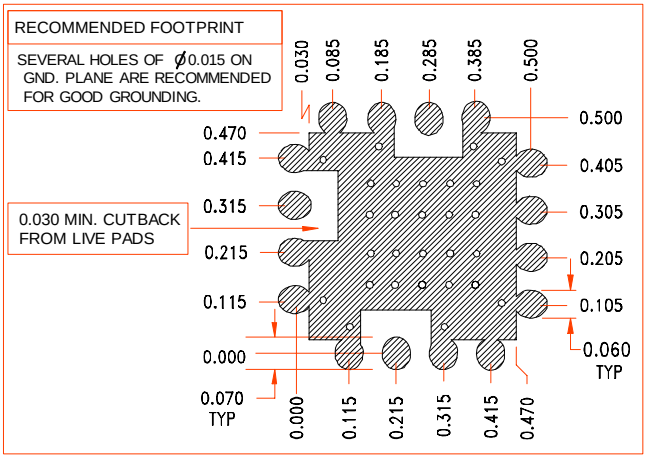
## Tuning Curve, typ.



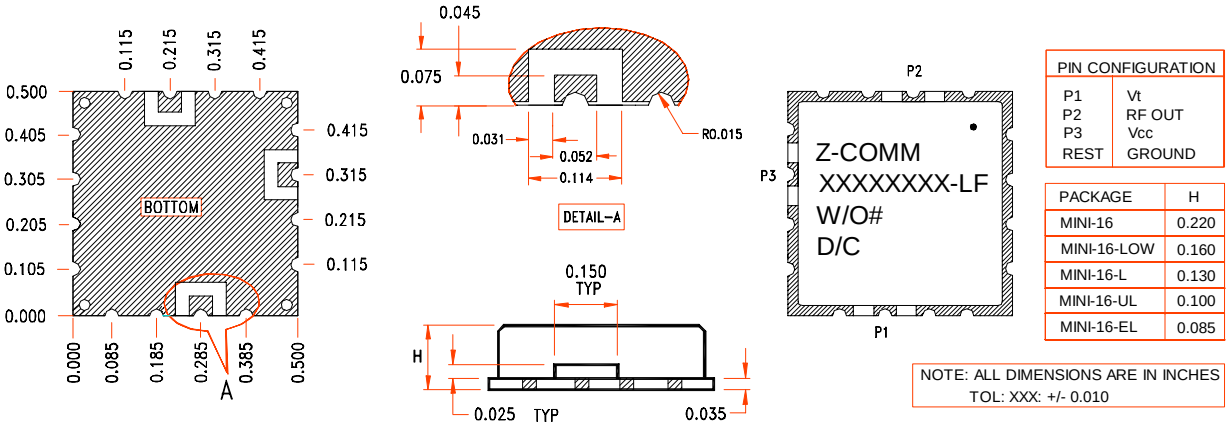

## Power Curve, typ.




## Footprint




## Physical Dimensions




| PIN CONFIGURATION | |
|---|---|
| P1 | Vt |
| P2 | RF OUT |
| P3 | Vcc |
| REST | GROUND |

| PACKAGE | H |
|---|---|
| MINI-16 | 0.220 |
| MINI-16-LOW | 0.160 |
| MINI-16-L | 0.130 |
| MINI-16-UL | 0.100 |
| MINI-16-EL | 0.085 |

NOTE: ALL DIMENSIONS ARE IN INCHES
TOL: XXX: +/- 0.010

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