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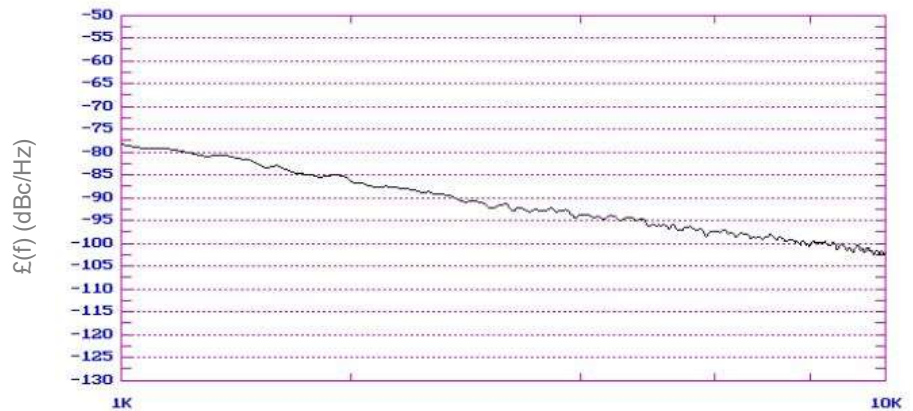
## Voltage-Controlled Oscillator Surface Mount Module

### Applications

Portable Radios  
 Basestations  
 Test Instruments

### Application Notes

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



### Performance Specifications

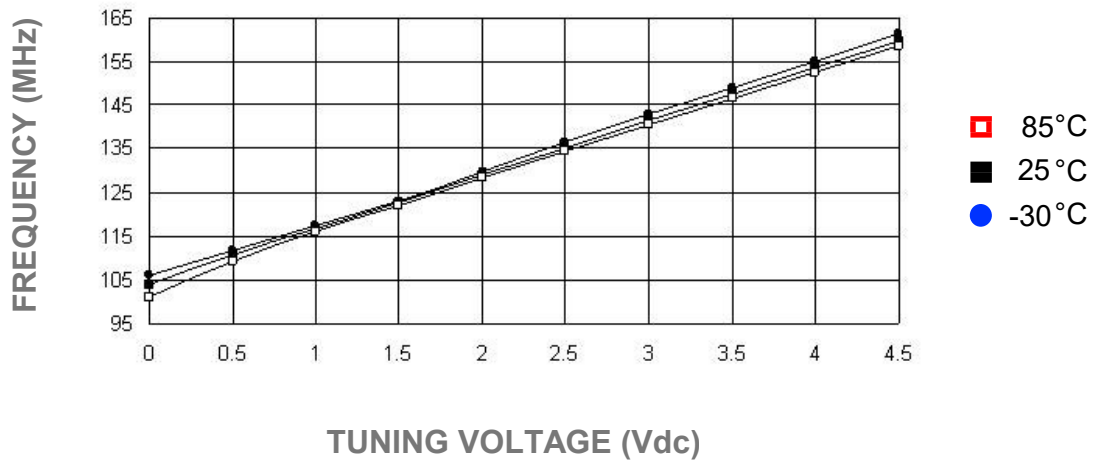
|  | Min | Typ   | Max | Units              |
|--|-----|-------|-----|--------------------|
| Oscillation Frequency Range            | 120 |       | 150 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |     | -101  |     | dBc/Hz             |
| Harmonic Suppression (2nd)             |     | -11   |     | dBc                |
| Tuning Voltage                         | 0.5 |       | 4.5 | Vdc                |
| Tuning Sensitivity (avg.)              |     | 12    |     | MHz/V              |
| Power Output                           | 0   | 3     | 6   | dBm                |
| Load Impedance                         |     | 50    |     | $\Omega$           |
| Input Capacitance                      |     |       | 50  | pF                 |
| Pushing                                |     |       | 2   | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |     |       | 2   | MHz                |
| Operating Temperature Range            | -30 |       | 85  | $^{\circ}\text{C}$ |
| Package Style                          |     | SUB-L |     |                    |

### Power Supply Requirements

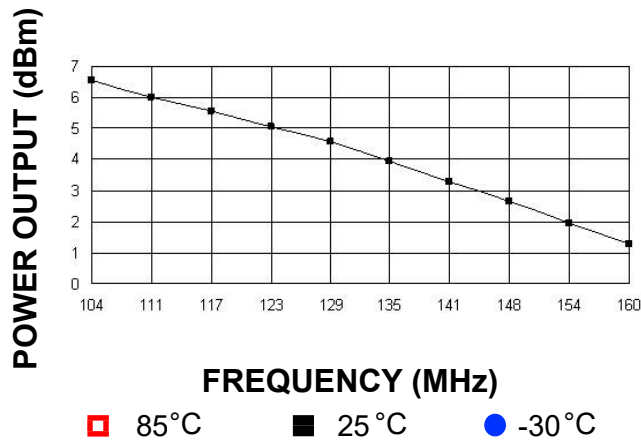
|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 20  | 25  | mA    |

### Additional Notes

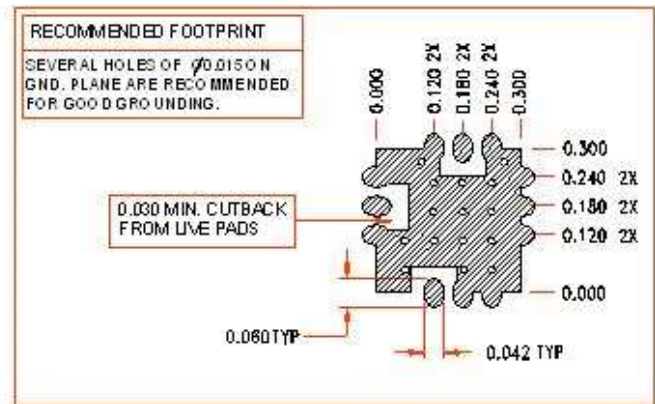
Tuning Curve, typ.



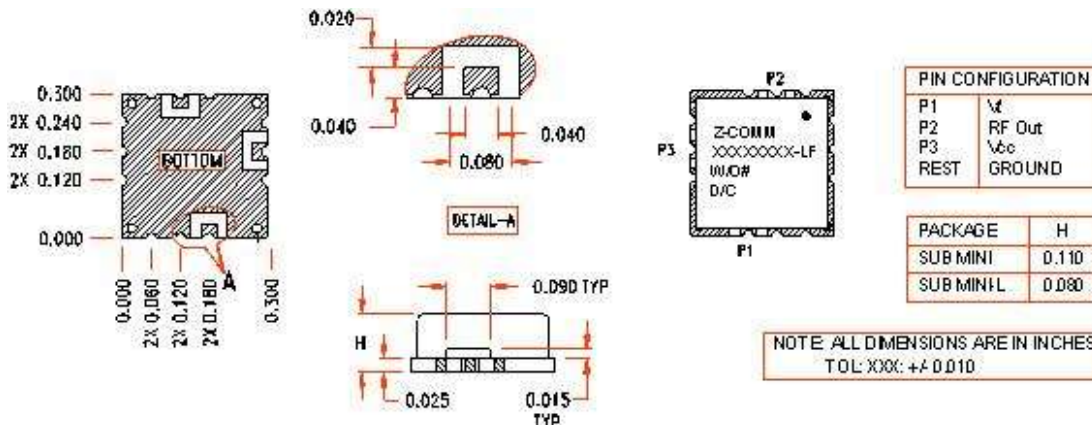
Power Curve, typ.



Footprint



Physical Dimensions



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