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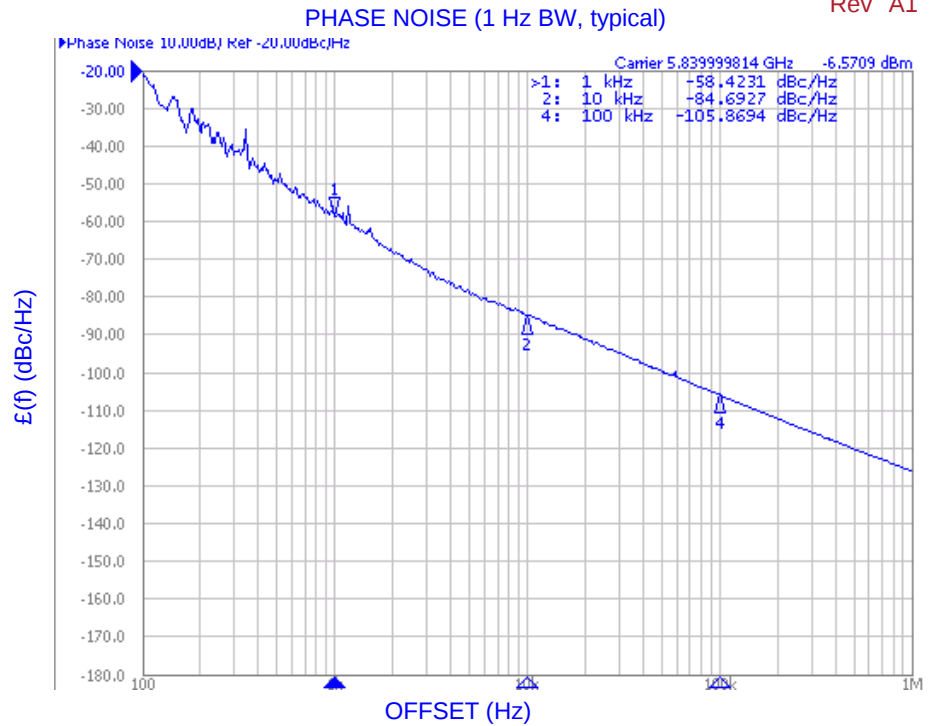
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Microwave Radios
- Fixed Broadband Wireless
- Point to Multi-Point

#### Application Notes

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



#### Performance Specifications

|                                        | Min  | Typ   | Max  | Units              |
|----------------------------------------|------|-------|------|--------------------|
| Oscillation Frequency Range            | 5820 |       | 5860 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |      | -84   |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |      | -30   |      | dBc                |
| Tuning Voltage                         | 0.5  |       | 2.5  | Vdc                |
| Tuning Sensitivity (avg.)              |      | 130   |      | MHz/V              |
| Power Output                           | -3   | 0     | 3    | dBm                |
| Load Impedance                         |      | 50    |      | $\Omega$           |
| Input Capacitance                      |      |       | 50   | pF                 |
| Pushing                                |      |       | 10   | MHz/V              |
| Pulling (14 dB Return Loss, Any Phase) |      |       | 9    | MHz                |
| Operating Temperature Range            | -40  |       | 85   | $^{\circ}\text{C}$ |
| Package Style                          |      | SUB-L |      |                    |

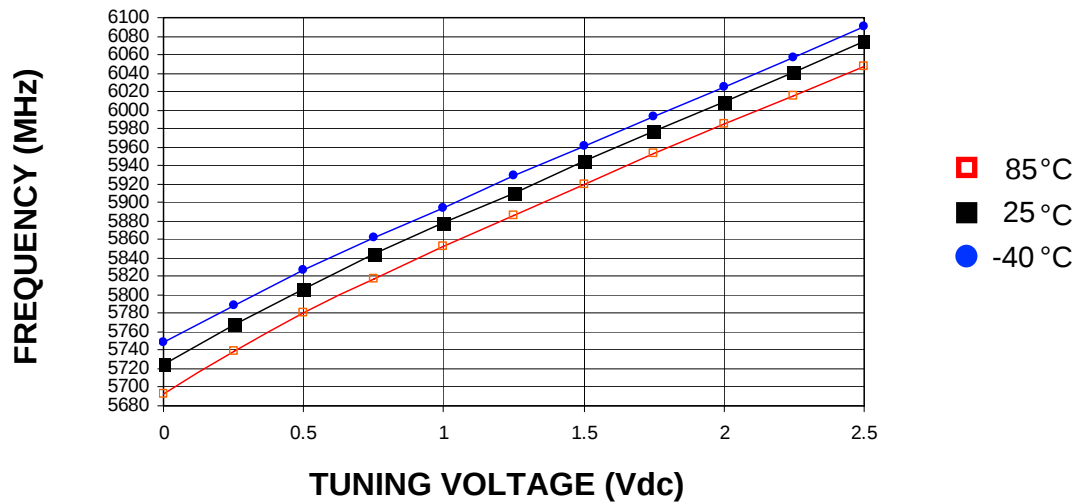
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 3   |     | Vdc   |
| Supply Current (Icc)       |     | 20  | 24  | mA    |

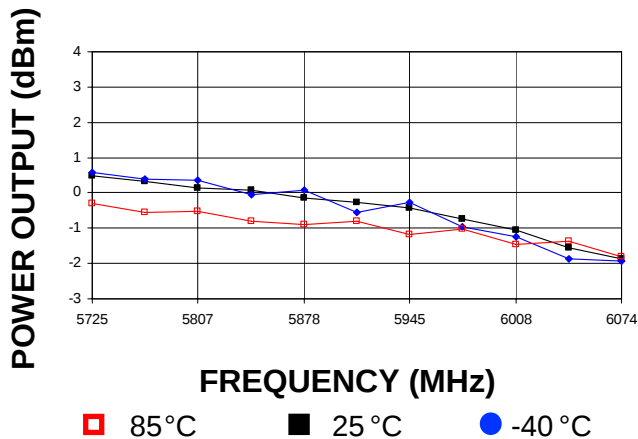
#### Additional Notes

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

**Tuning Curve, typ.**



**Power Curve, typ.**

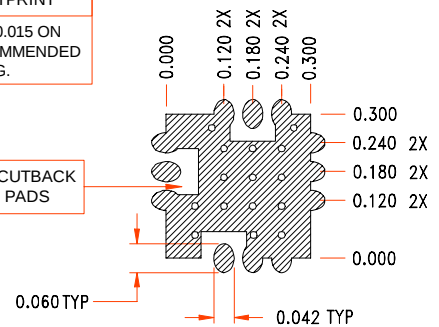


**Footprint**

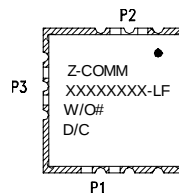
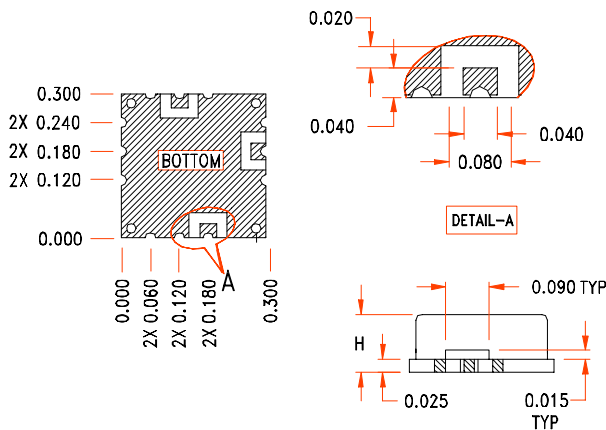
**RECOMMENDED FOOTPRINT**

SEVERAL HOLES OF  $\phi 0.015$  ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.

0.030 MIN. CUTBACK FROM LIVE PADS



**Physical Dimensions**



**PIN CONFIGURATION**

|      |        |
|------|--------|
| P1   | Vt     |
| P2   | RF Out |
| P3   | Vcc    |
| REST | GROUND |

| PACKAGE    | H     |
|------------|-------|
| SUB MINI   | 0.110 |
| SUB MINI-L | 0.080 |

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

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