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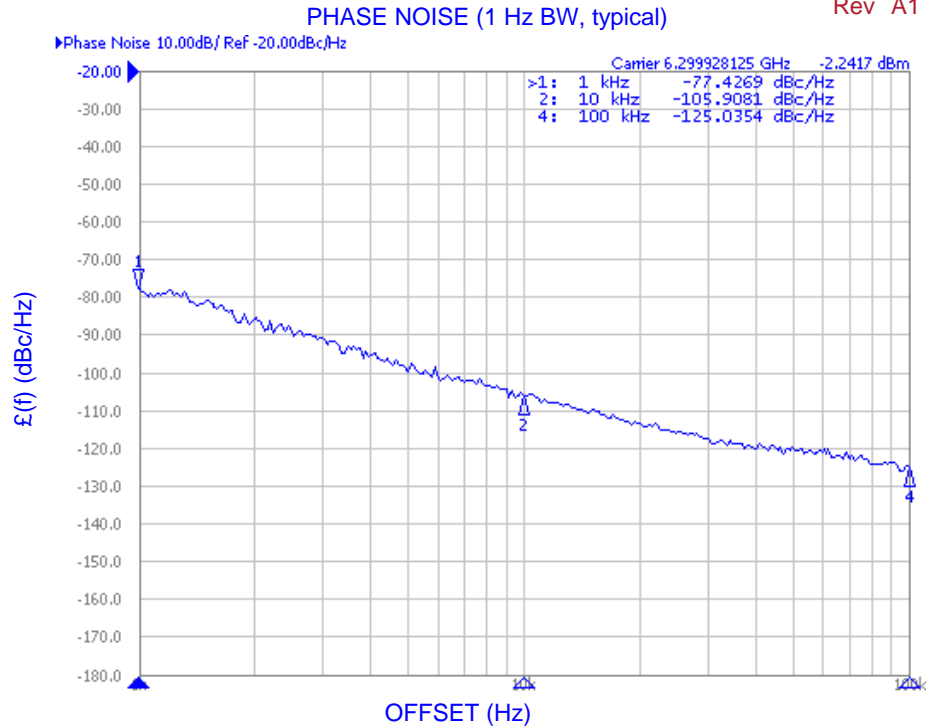
### Voltage-Controlled Oscillator Surface Mount Module

#### Applications

- Microwave Radios
- Satellite Communications
- Direct Broadcast

#### Application Notes

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



#### Performance Specifications

|  | Min  | Typ     | Max  | Units              |
|--|------|---------|------|--------------------|
| Oscillation Frequency Range            | 6290 |         | 6310 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW)  |      | -105    |      | dBc/Hz             |
| Harmonic Suppression (2nd)             |      | -40     | -18  | dBc                |
| Tuning Voltage                         | 0.5  |         | 4.5  | Vdc                |
| Tuning Sensitivity (avg.)              |      | 18      |      | MHz/V              |
| Power Output                           | 1    | 3.5     | 6    | dBm                |
| Load Impedance                         |      | 50      |      | $\Omega$           |
| Input Capacitance                      |      |         | 50   | pF                 |
| Pushing                                |      |         | .5   | MHz/V              |
| Pulling (12 dB Return Loss, Any Phase) |      |         | 2    | MHz                |
| Operating Temperature Range            | -40  |         | 85   | $^{\circ}\text{C}$ |
| Package Style                          |      | VCO-24H |      |                    |

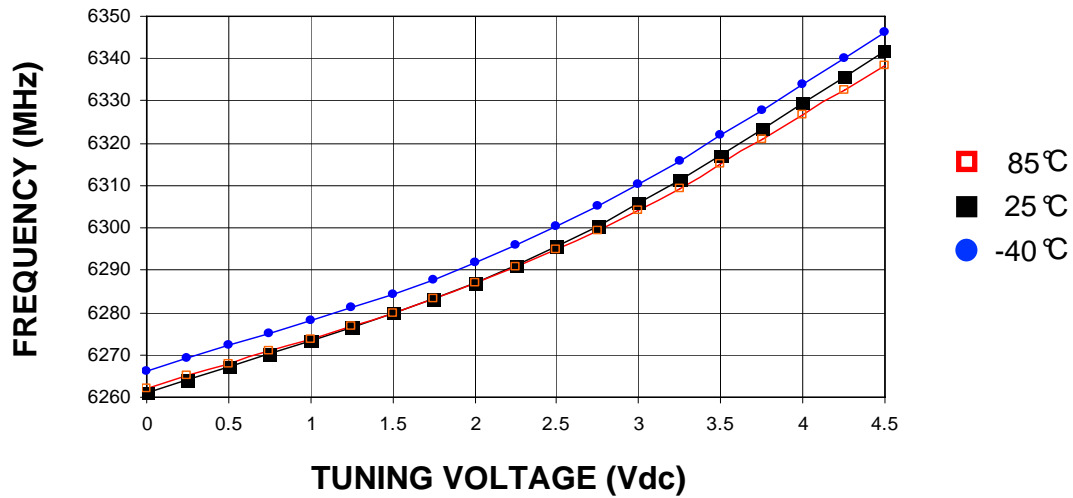
#### Power Supply Requirements

|                            | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 74  | 89  | mA    |

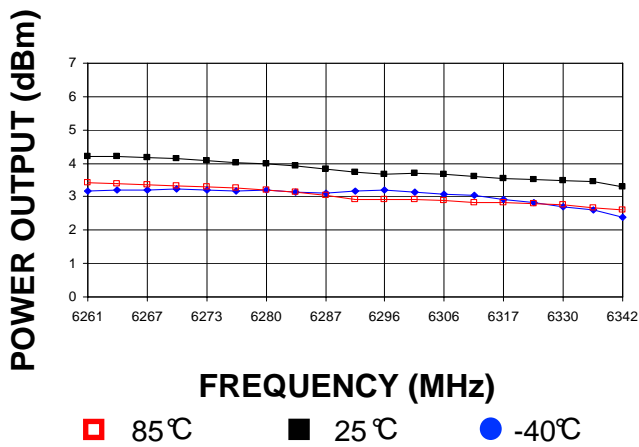
#### Additional Notes

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

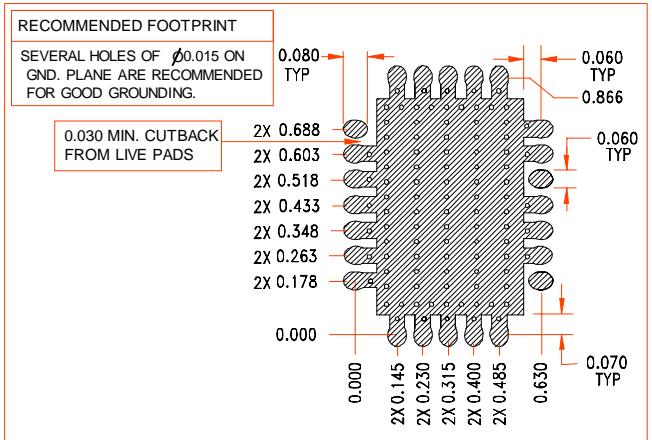
Tuning Curve, typ.



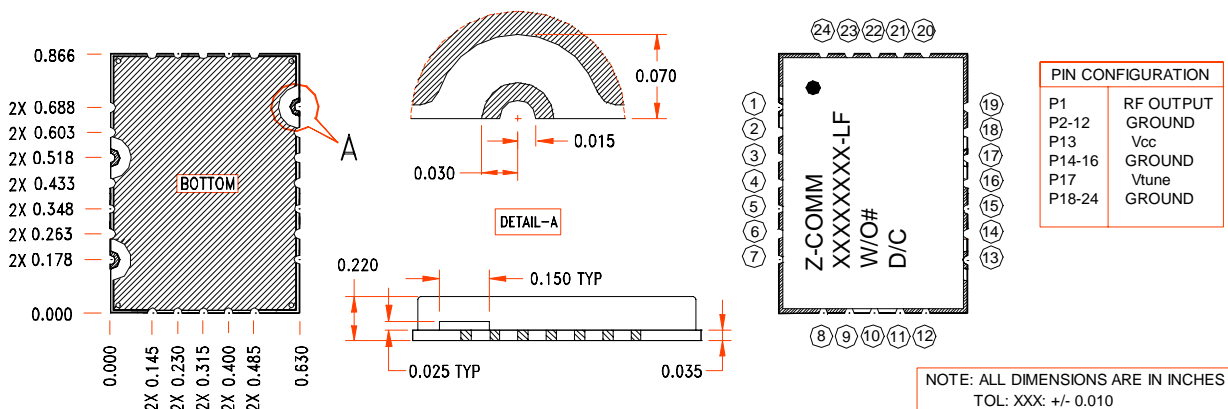
Power Curve, typ.



Footprint



Physical Dimensions



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