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## Voltage-Controlled Oscillator Surface Mount Module

### Applications

Test Instrumentation  
Radar Systems

### Application Notes

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

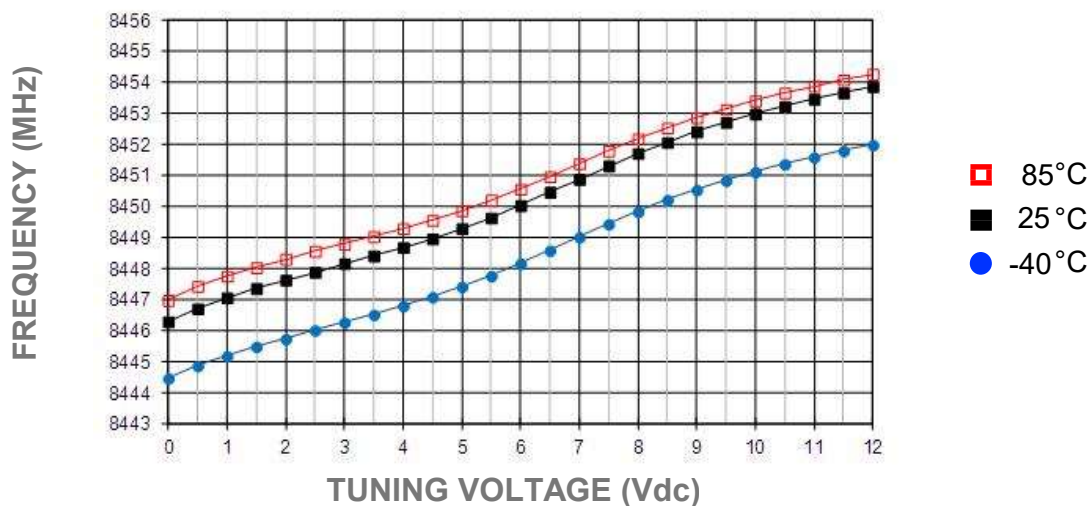


| Performance Specifications            | Min  | Typ  | Max  | Units              |
|---------------------------------------|------|------|------|--------------------|
| Oscillation Frequency Range           | 8450 |      | 8450 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW) |      | -103 |      | dBc/Hz             |
| Harmonic Suppression (2nd)            |      | -35  | -30  | dBc                |
| Tuning Voltage                        | 0    |      | 12   | Vdc                |
| Tuning Sensitivity (avg.)             |      | 0.5  |      | MHz/V              |
| Power Output                          | -1   | 2    | 5    | dBm                |
| Load Impedance                        |      | 50   |      | $\Omega$           |
| Input Capacitance                     |      |      | 50   | pF                 |
| Pushing                               |      |      | 1    | MHz/V              |
| Pulling ( dB Return Loss, Any Phase)  |      |      | 1    | MHz                |
| Operating Temperature Range           | -40  |      | 85   | $^{\circ}\text{C}$ |
| Package Style                         |      | SDRO |      |                    |

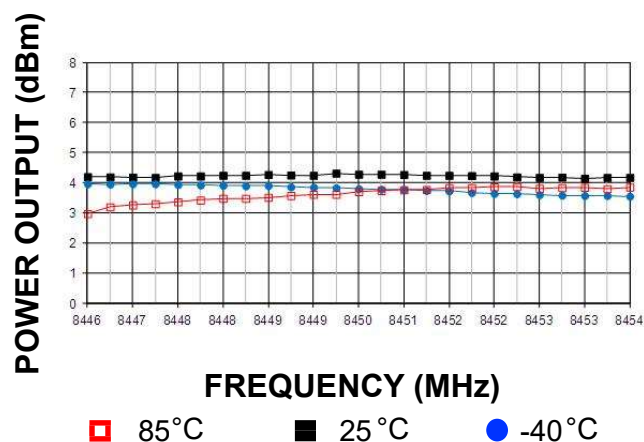
| Power Supply Requirements  | Min | Typ | Max | Units |
|----------------------------|-----|-----|-----|-------|
| Supply Voltage (Vcc, nom.) |     | 5   |     | Vdc   |
| Supply Current (Icc)       |     | 18  | 25  | mA    |

### Additional Notes

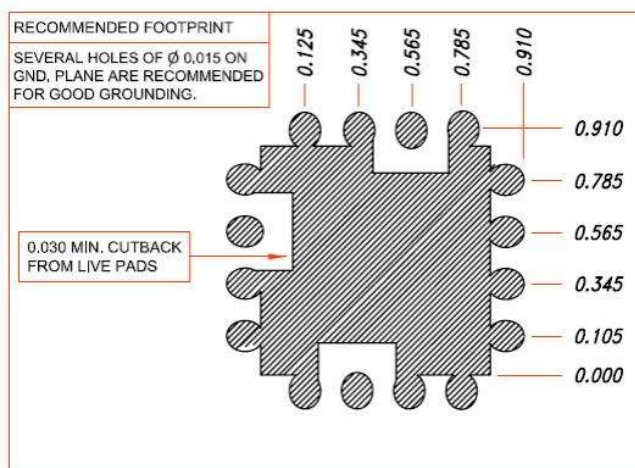
Tuning Curve, typ.



Power Curve, typ.



Footprint



Physical Dimensions

