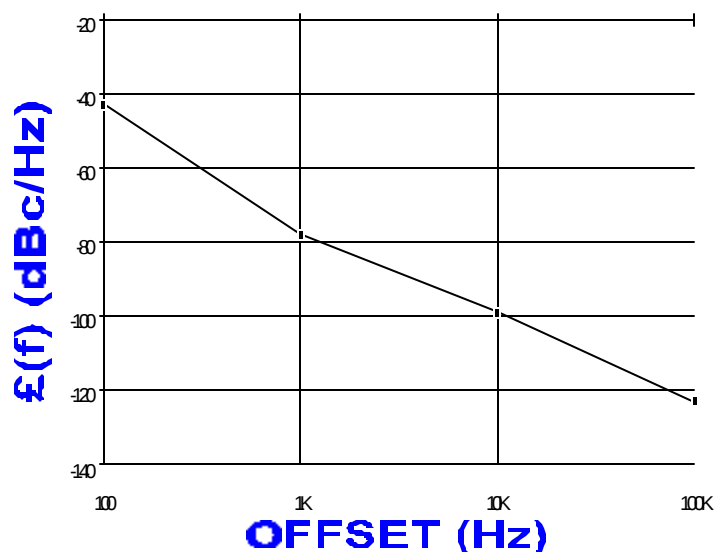


**PHASE NOISE (1 Hz BW, typical)**



**FEATURES**

- Frequency Range: 2406 - 2646 MHz
- Tuning Voltage: 0.5-8 Vdc
- MINI-14H - Style Package

**APPLICATIONS**

- Spread Spectrum Communications
- Data Collection
- Microwave Links

**PERFORMANCE SPECIFICATIONS**

**VALUE**

**UNITS**

|                                             |             |        |
|---------------------------------------------|-------------|--------|
| Oscillation Frequency Range                 | 2406 - 2646 | MHz    |
| Phase Noise @ 10 kHz offset (1 Hz BW, typ.) | -94         | dBc/Hz |
| Harmonic Suppression (2nd, typ.)            | -15         | dBc    |
| Tuning Voltage                              | 0.5-8       | Vdc    |
| Tuning Sensitivity (avg.)                   | 47          | MHz/V  |
| Power Output                                | 5±4         | dBm    |
| Load Impedance                              | 50          | Ω      |
| Input Capacitance (max.)                    | 50          | pF     |
| Pushing                                     | <10         | MHz/V  |
| Pulling (14 dB Return Loss, Any Phase)      | <9          | MHz    |
| Operating Temperature Range                 | -30 to 80   | °C     |
| Package Style                               | MINI-14H    |        |

**POWER SUPPLY REQUIREMENTS**

|                            |    |     |
|----------------------------|----|-----|
| Supply Voltage (Vcc, nom.) | 5  | Vdc |
| Supply Current (Icc, typ.) | 23 | mA  |

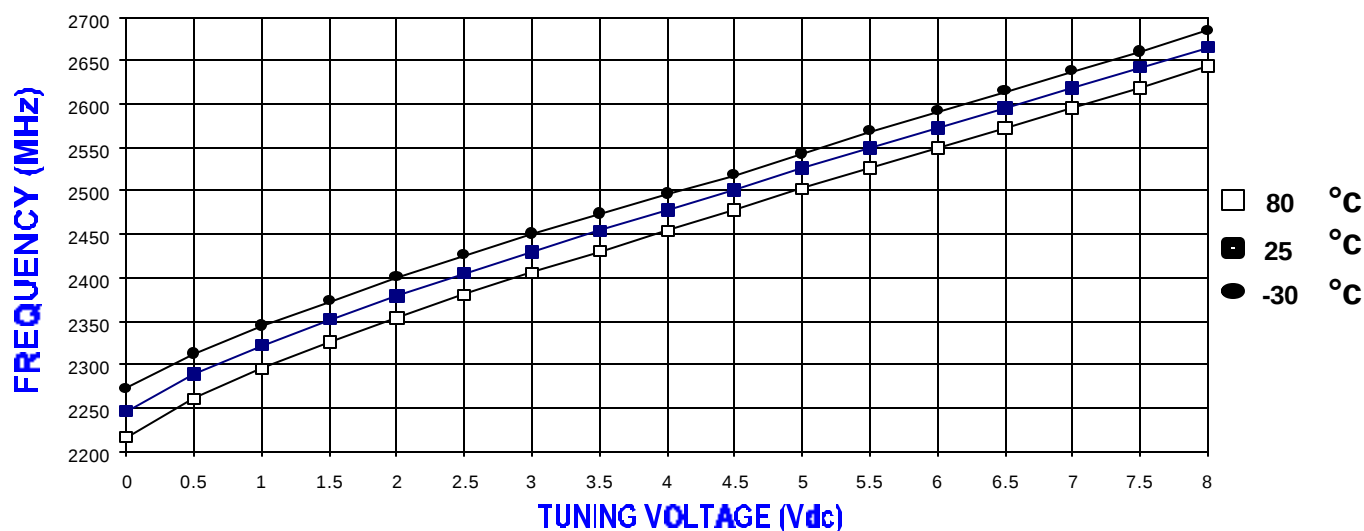
All specifications are typical unless otherwise noted and subject to change without notice.

**APPLICATION NOTES**

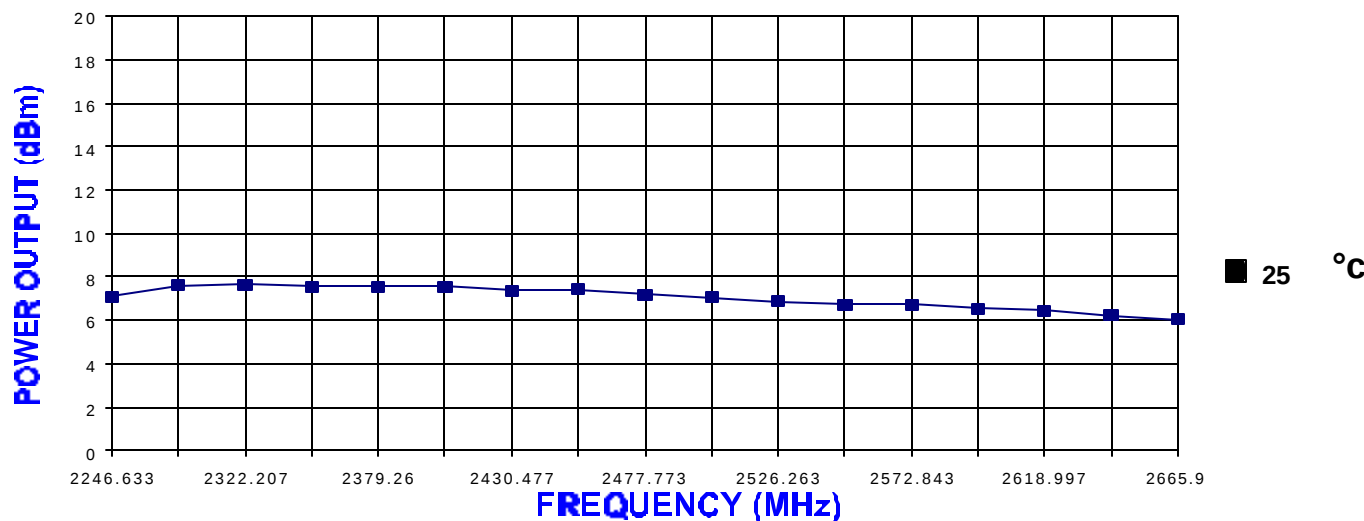
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

**NOTES:**

TUNING CURVE, typ.

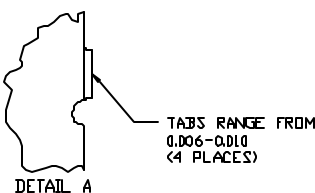
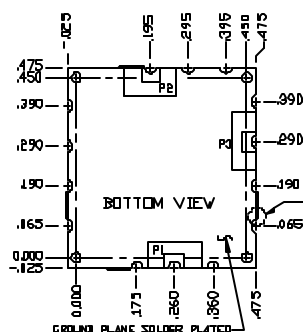


POWER CURVE, typ.



PHYSICAL DIMENSIONS

MINC-14H  
415-0060 REV.3  
(DRAWING NOT TO SCALE)



NOTES

1. THE INSIDE RADII OF ALL 14 HALF HOLES AT THE PERIMETER OF THE BOARD ARE SOLDER PLATED TO PROVIDE A SURFACE FOR THE ATTACHMENT OF THE VCO TO A MOTHERBOARD. IN 14 LOCATIONS, WITH 2 PADS BEING USED FOR ELECTRICAL MECHANICAL INTERFACE, 14 SOLDER LOCATIONS REQUIRED. THE SURFACE OF THE SHIELD IS 10N PLATED AND MAY BE SOLDERED TO THE SHIELD'S BASE METAL (S BRASS).
2. THE GROUND PLANE IS GROUND AND ATTACHES TO A GROUND TRACK ON THE UPPER SIDE OF THE BOARD AS WELL AS THE SHIELD BY PTH.
3. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES.
4. UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS FOLLOWS:  
TOLERANCES  
XXX= ± .010
5. UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS FOLLOWS:  
TOLERANCES  
XXX= ± .010

P1=V1  
P2=RF OUT  
P3=VCC

