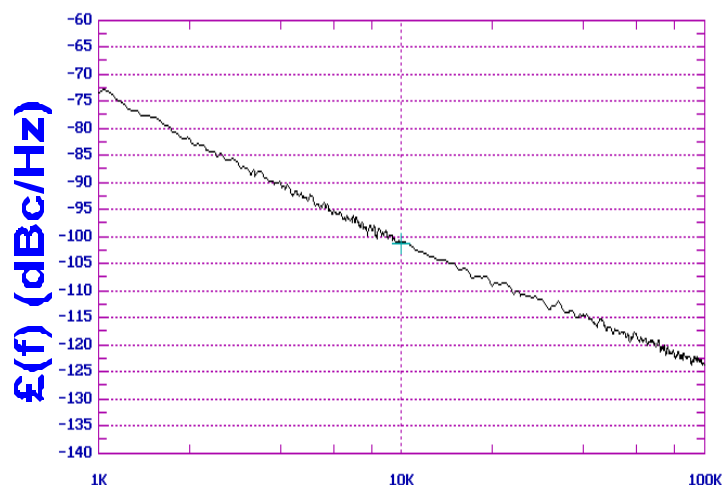




**PHASE NOISE (1 Hz BW, typical)**



**OFFSET (Hz)**

**FEATURES**

- Frequency Range: 1875 - 1957 MHz
- Tuning Voltage: 0.6-5 Vdc
- MINI-14S - Style Package

**APPLICATIONS**

- Digital Radios
- PCS
- Downconvertors

**PERFORMANCE SPECIFICATIONS**

**VALUE**

**UNITS**

|                                             |             |        |
|---------------------------------------------|-------------|--------|
| Oscillation Frequency Range                 | 1875 - 1957 | MHz    |
| Phase Noise @ 10 kHz offset (1 Hz BW, typ.) | -100        | dBc/Hz |
| Harmonic Suppression (2nd, typ.)            | -20         | dBc    |
| Tuning Voltage                              | 0.6-5       | Vdc    |
| Tuning Sensitivity (avg.)                   | 69          | MHz/V  |
| Power Output                                | 0.5±2.5     | dBm    |
| Load Impedance                              | 50          | ?      |
| Input Capacitance (max.)                    | 50          | pF     |
| Pushing                                     | <4          | MHz/V  |
| Pulling (14 dB Return Loss, Any Phase)      | <1          | MHz    |
| Operating Temperature Range                 | -40 to 85   | °C     |
| Package Style                               | MINI-14S    |        |

**POWER SUPPLY REQUIREMENTS**

|                            |     |     |
|----------------------------|-----|-----|
| Supply Voltage (Vcc, nom.) | 4.5 | Vdc |
| Supply Current (Icc, typ.) | 11  | mA  |

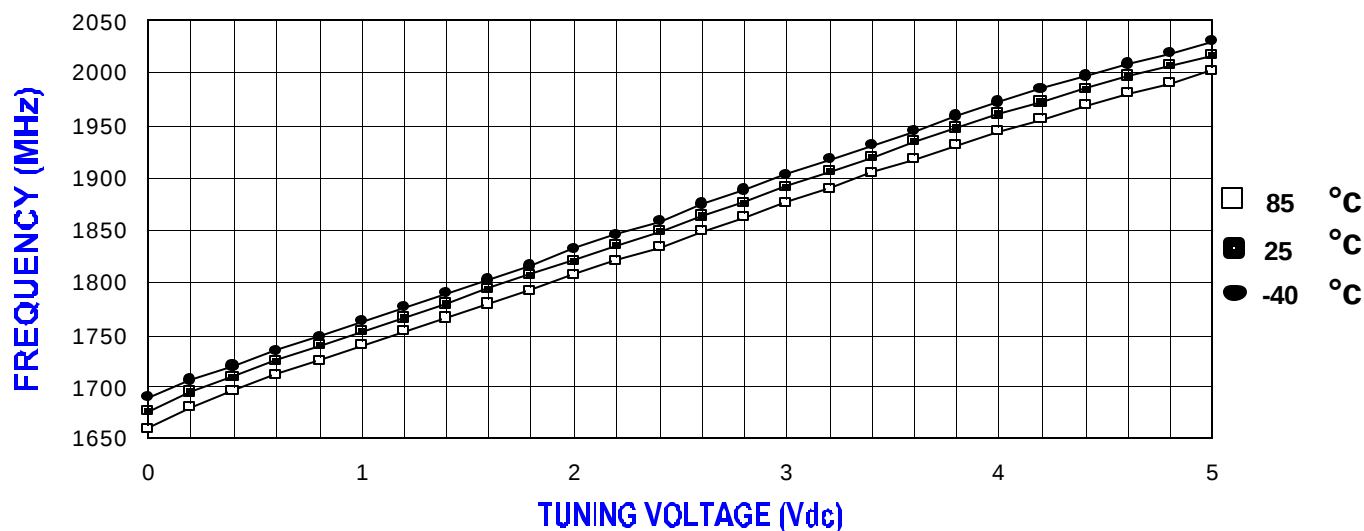
All specifications are typical unless otherwise noted and subject to change without notice.

**APPLICATION NOTES**

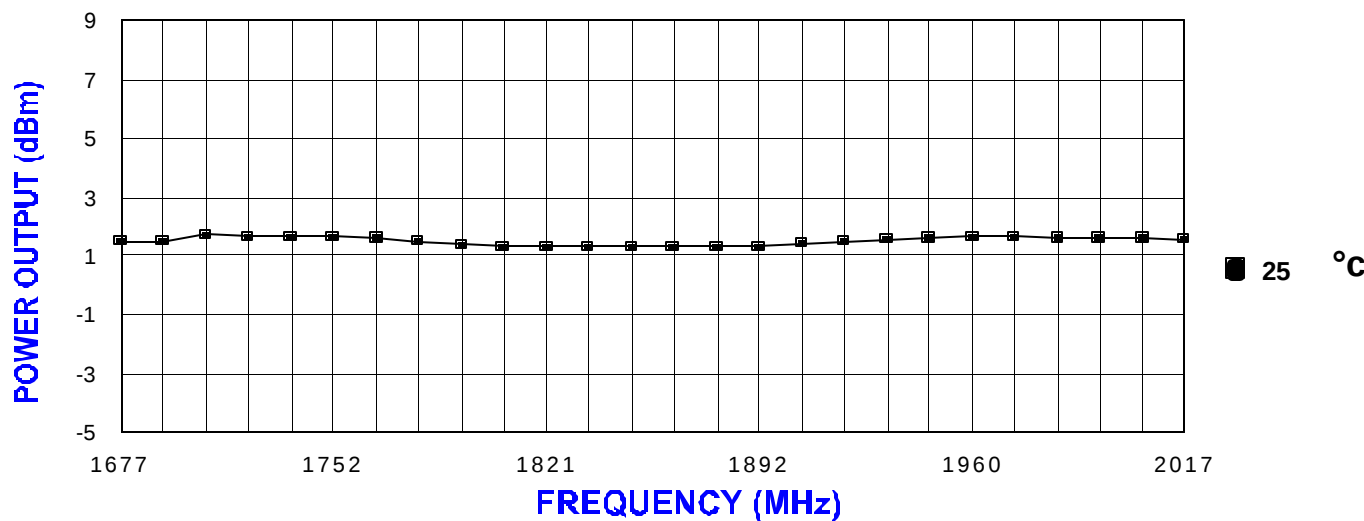
- AN-100/1 : Mounting and Grounding of VCOs
- AN-102 : Proper Output Loading of VCOs
- AN-107 : How to Solder Z-COMM VCOs

**NOTES:**

TUNING CURVE, typ.

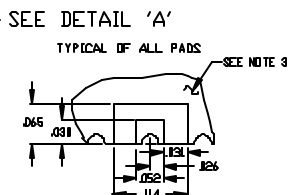
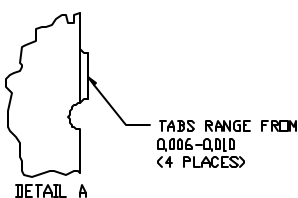
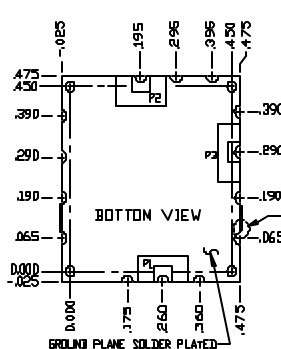


POWER CURVE, typ.



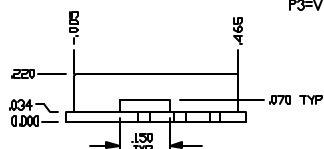
PHYSICAL DIMENSIONS

MINI-14S  
415-0062 REV. B  
(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 11 LOCATIONS WITH 3 PADS BEING USED FOR ELECTROMECHANICAL INTERFACE, 14 SOLDER LOCATIONS REQUIRED.
2. THE SURFACE OF THE SHIELD IS TIN PLATED AND MAY BE SOLDERED TO THE SHIELD'S BASE METAL IS BRASS.
3. THE GROUND PLANE IS GROUND AND ATTACHES TO A GROUND TRACK ON THE UPPER SIDE OF THE BOARD AS WELL AS THE SHIELD'S PTH.
4. UNLESS OTHERWISE NOTED ALL DIMENSIONS ARE IN INCHES.
5. UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS FOLLOWS:  
TOLERANCES  
.XXX= ±.010



P1=VT  
P2=RF OUT  
P3=VCC