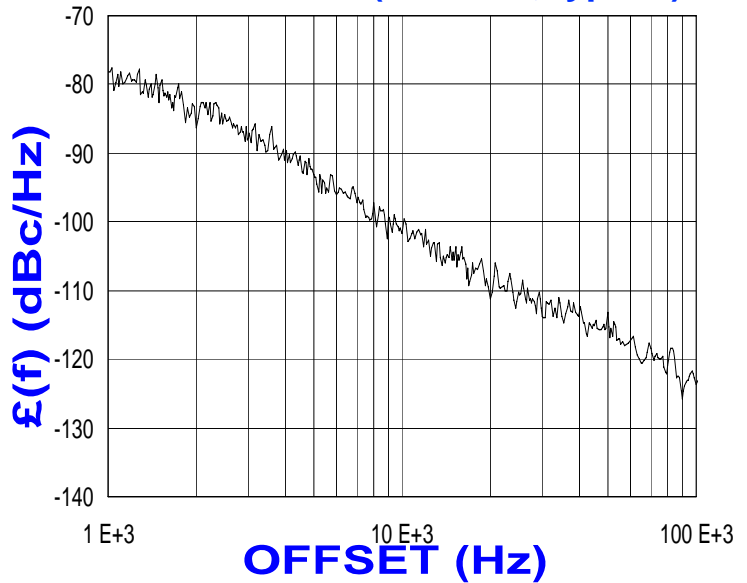


**PHASE NOISE (1 Hz BW, typical)**



| FEATURES               |             |
|------------------------|-------------|
| • Frequency Range:     | 85 - 95 MHz |
| • Step Size:           | 50 KHz      |
| • CPLL - Style Package |             |
| APPLICATIONS           |             |
| • Telecommunications   |             |
| • Satellite            |             |
| • Telemetry            |             |

| PERFORMANCE SPECIFICATIONS                  | VALUE     | UNITS  |
|---|-----------|--------|
| Frequency Range                             | 85 - 95   | MHz    |
| Phase Noise @ 10 kHz offset (1 Hz BW, typ.) | -101      | dBc/Hz |
| Harmonic Suppression (2nd, typ.)            | -10       | dBc    |
| Sideband Spurs (typ.)                       | -65       | dBc    |
| Power Output                                | 0.5±2.5   | dBm    |
| Load Impedance                              | 50        | Ω      |
| Step Size                                   | 50        | kHz    |
| Charge Pump Output Current                  | 1250      | μA     |
| Switching Speed (typ., adjacent channel)    | <4        | mSec   |
| Startup Lock Time (typ.)                    | 4         | mSec   |
| Operating Temperature Range                 | -40 to 85 | °C     |
| Package Style                               | CPLL      |        |
| POWER SUPPLY REQUIREMENTS                   |           |        |
| Supply Voltage (Vcc, nom.)                  | 3.3       | Vdc    |
| Supply Current (Icc, typ.)                  | 25        | mA     |

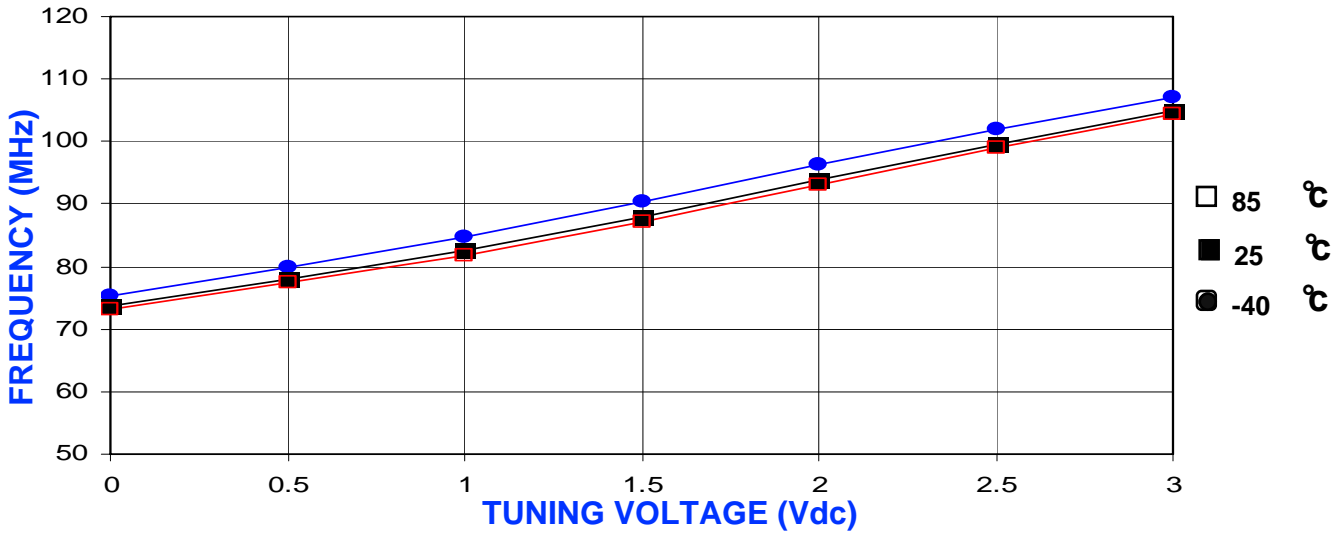
All specifications are typical unless otherwise noted and subject to change without notice.

| APPLICATION NOTES  |
|--|
| <ul style="list-style-type: none"> <li>• AN-107 : How to Solder Z-COMM VCOs / PLLs</li> <li>• AN-202 : PLL Functional Description</li> </ul> |

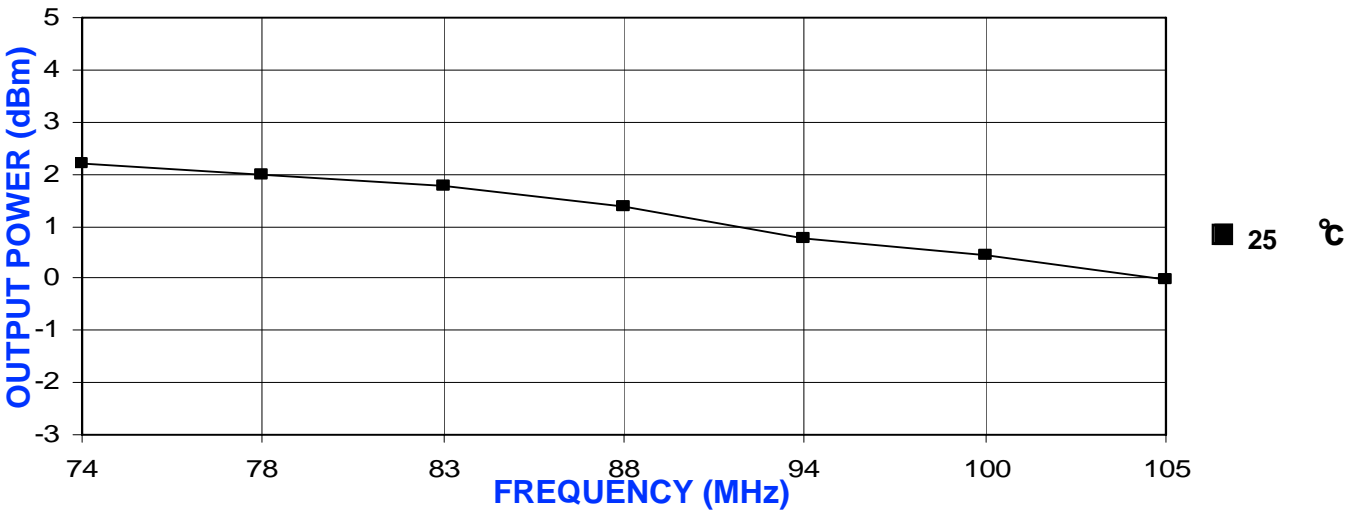
**NOTES:**

Reference Oscillator Signal:  $5 \text{ MHz} < f_{\text{osc}} < 100 \text{ MHz}$   
 Frequency Synthesizer: Analog Devices - ADF4001

VCO TUNING CURVE, typ.



VCO POWER CURVE, typ.



PHYSICAL DIMENSIONS

