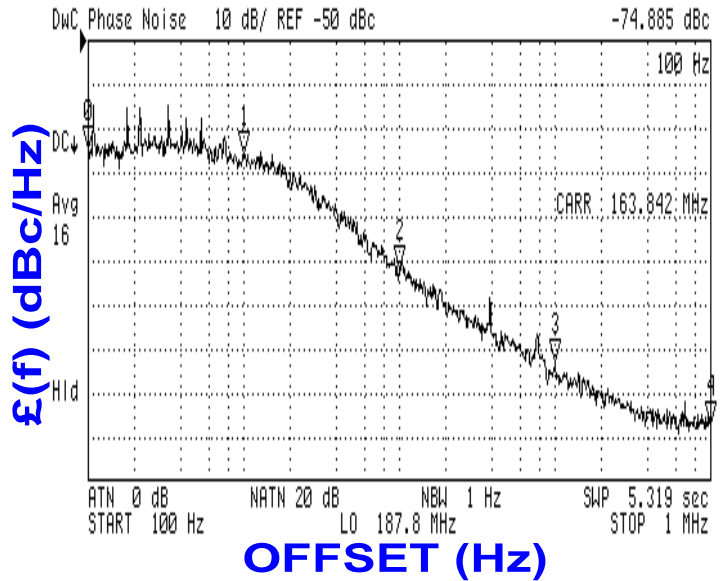


**PHASE NOISE (1 Hz BW, typical)**



| FEATURES                               |
|--|
| • Frequency Range: 163.84 - 163.84 MHz |
| • Step Size: 80 KHz                    |
| • CPLL - Style Package                 |
| APPLICATIONS                           |
| • Telecommunications                   |
| • Satellite                            |
| • Telemetry                            |

| PERFORMANCE SPECIFICATIONS                  | VALUE           | UNITS        |
|---|-----------------|--------------|
| Frequency Range                             | 163.84 - 163.84 | MHz          |
| Phase Noise @ 10 kHz offset (1 Hz BW, typ.) | -102            | dBc/Hz       |
| Harmonic Suppression (2nd, typ.)            | -10             | dBc          |
| Sideband Spurs (typ.)                       | -70             | dBc          |
| Power Output                                | 0±3             | dBm          |
| Load Impedance                              | 50              | $\Omega$     |
| Step Size                                   | 80              | kHz          |
| Charge Pump Output Current                  | 1250            | $\mu$ A      |
| Switching Speed (typ., adjacent channel)    | 3               | mSec         |
| Startup Lock Time (typ.)                    | 5               | mSec         |
| Operating Temperature Range                 | -40 to 85       | $^{\circ}$ C |
| Package Style                               | CPLL            |              |
| POWER SUPPLY REQUIREMENTS                   |                 |              |
| Supply Voltage (Vcc, nom.)                  | 3               | Vdc          |
| Supply Current (Icc, typ.)                  | 21              | mA           |

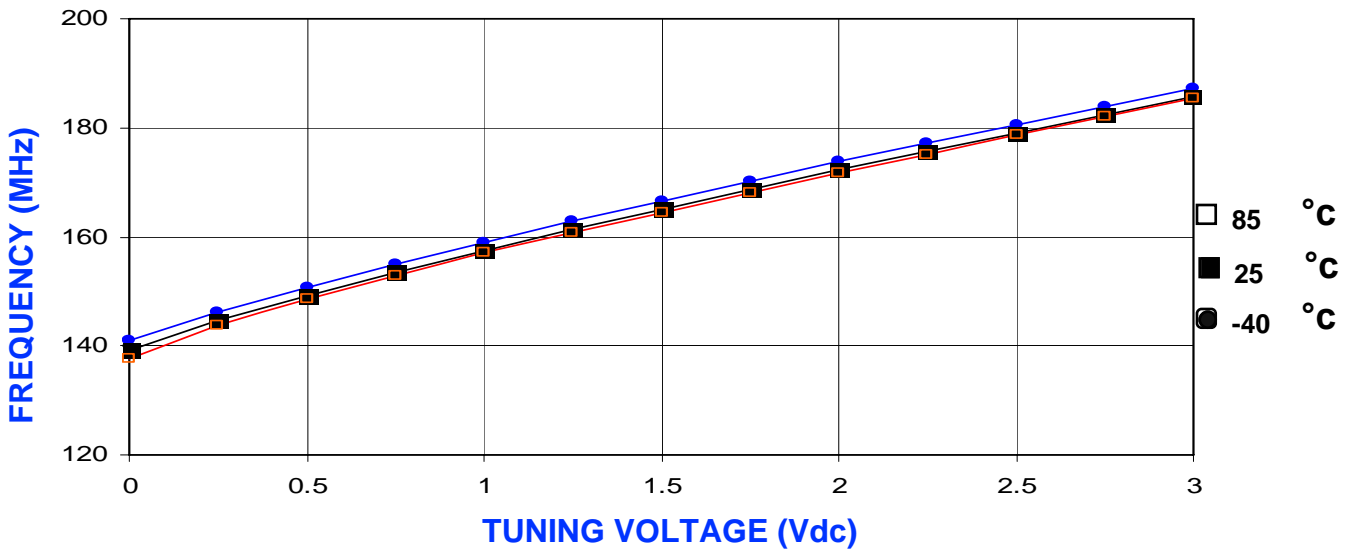
All specifications are typical unless otherwise noted and subject to change without notice.

| APPLICATION NOTES                           |
|---|
| • AN-107 : How to Solder Z-COMM VCOs / PLLs |
| • AN-202 : PLL Functional Description       |

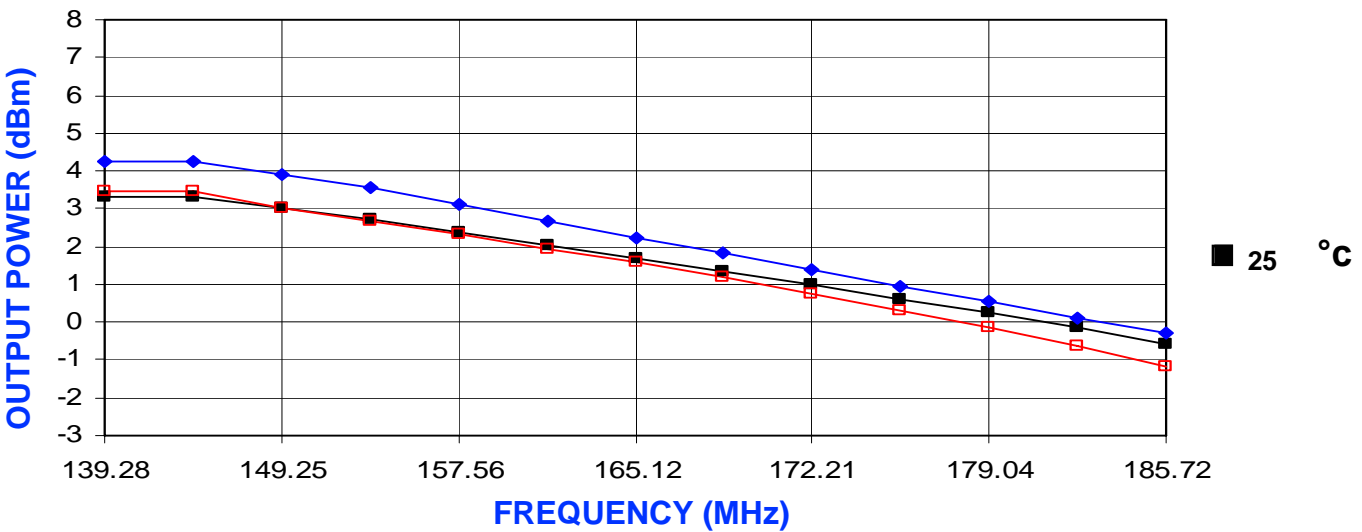
**NOTES:**

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

