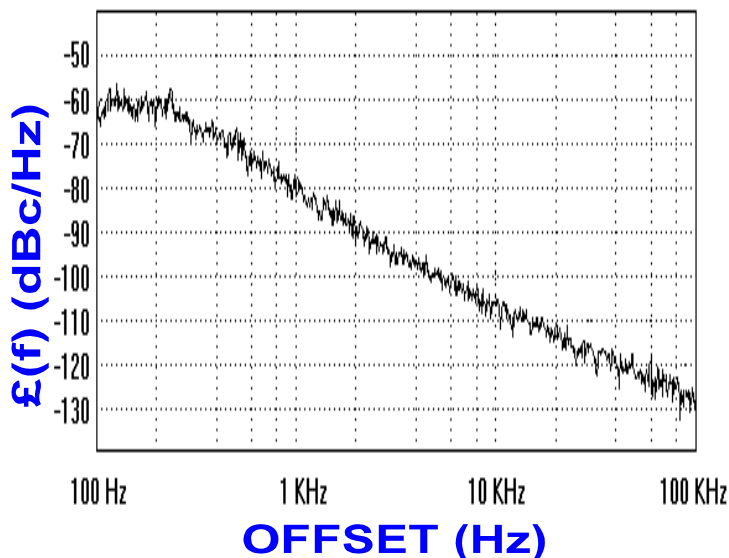




### PHASE NOISE (1 Hz BW, typical)



#### FEATURES

- Frequency Range: 1055 - 1105 MHz
- Step Size: 30 KHz
- PLL - Style Package

#### APPLICATIONS

- Basestations
- Mobile Radios
- Satellite Communications

#### PERFORMANCE SPECIFICATIONS

|                                             | VALUE       | UNITS        |
|---------------------------------------------|-------------|--------------|
| Frequency Range                             | 1055 - 1105 | MHz          |
| Phase Noise @ 10 kHz offset (1 Hz BW, typ.) | -105        | dBc/Hz       |
| Harmonic Suppression (2nd, typ.)            | -12         | dBc          |
| Sideband Spurs (typ.)                       | -70         | dBc          |
| Power Output                                | 0±3         | dBm          |
| Load Impedance                              | 50          | $\Omega$     |
| Step Size                                   | 30          | KHz          |
| Charge Pump Output Current                  | 1000        | $\mu$ A      |
| Switching Speed (typ., adjacent channel)    | 15          | mSec         |
| Startup Lock Time (typ.)                    | 20          | mSec         |
| Operating Temperature Range                 | -40 to +85  | $^{\circ}$ C |
| Package Style                               | PLL         |              |

#### POWER SUPPLY REQUIREMENTS

|                            |    |     |
|----------------------------|----|-----|
| Supply Voltage (Vcc, nom.) | 5  | Vdc |
| Supply Current (Icc, typ.) | 18 | mA  |

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

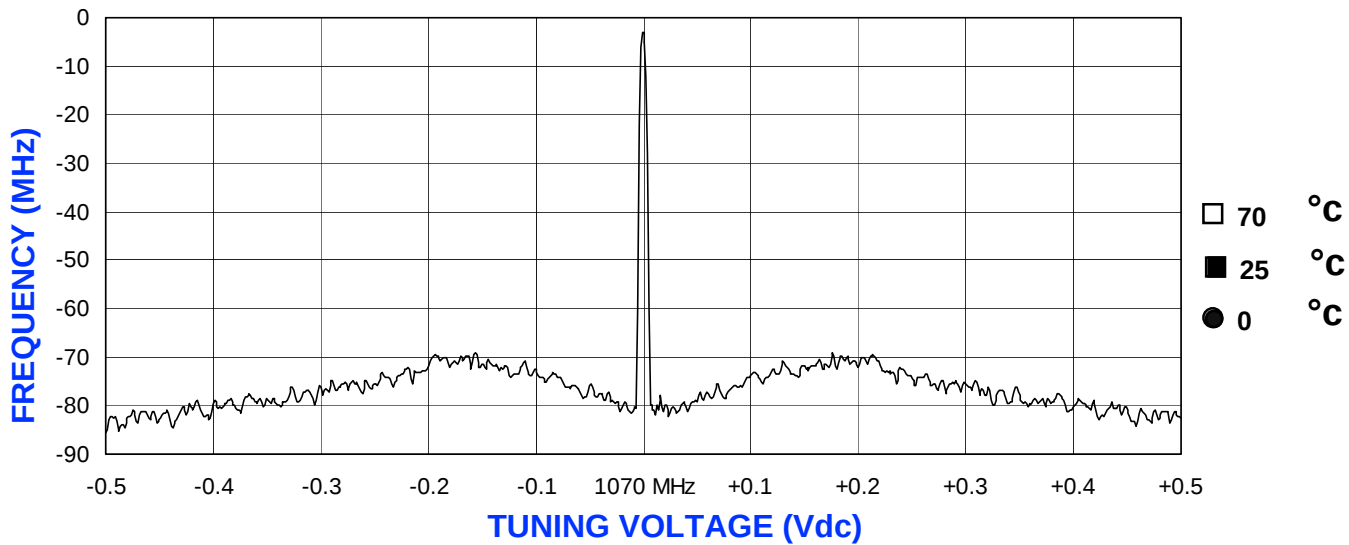
#### APPLICATION NOTES

- AN-107 : How to Solder Z-COMM VCOs / PLLs
- AN-200 : Mounting and Grounding of Z-COMM PLLs
- AN-201 : PLL Fundamentals      AN-202 : PLL Functional Description

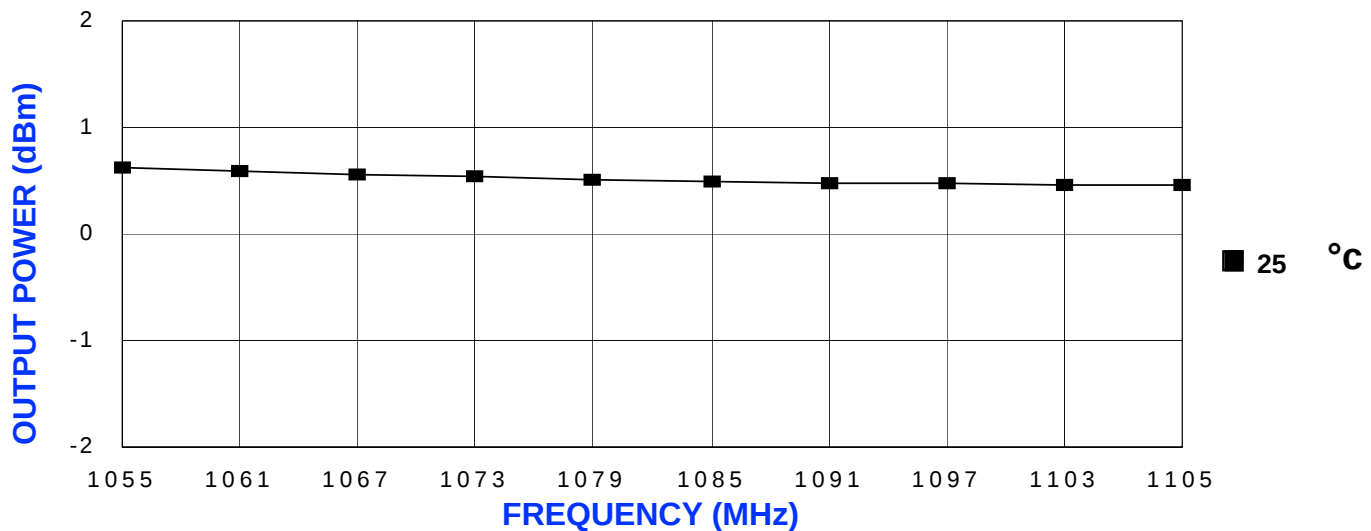
#### NOTES:

Reference Oscillator Signal:  $5 \text{ MHz} < f_{\text{osc}} < 40 \text{ MHz}$   
 Frequency Synthesizer: National Semiconductor - LMX2316

VCO TUNING CURVE, typ.



VCO POWER CURVE, typ.



PHYSICAL DIMENSIONS

