



## PLL Product Specification

**Model:** PLL400-1550(Y)      **Rev:** P3      **Date:** 9/1/2006

**Customer:** SIRENZA  
MICRODEVICES, INC.      **AppNote:** 109, Opt. 100

**Operating Temperature Range:** ( -35 ° to 85 ° C)

**Pb RoHS Compliant**

To order models as RoHS Compliant add "Y" suffix to base model number.

| Parameter                         | Min  | Typ  | Max  | Units  | X | Remarks |
|-----------------------------------|------|------|------|--------|---|---------|
| Frequency Range -                 | 1510 | 1550 | 1590 | MHz    | X |         |
| Step Size -                       |      | 200  |      | kHz    | X |         |
| Settling Time - To within 1.0 kHz |      | 4    | 10   | mSec   |   |         |
| Output Power -                    | -2   | 1    | 4    | dBm    | X |         |
| Output Phase Noise:               |      |      |      |        |   |         |
| 100 kHz                           |      | -125 | -119 | dBc/Hz |   |         |
| 600 kHz                           |      | -143 | -137 | dBc/Hz | X |         |
| Power Supply -                    | 4.9  | 5    | 5.1  | Volts  |   |         |
| Supply Current -                  |      | 25   | 35   | mA     | X |         |
| Spurious Product - 600 kHz        |      | -95  | -90  | dBc    | X |         |
| Reference Feedthrough -           |      | -90  | -80  | dBc    |   |         |
| Harmonic Suppression:             |      |      |      |        |   |         |
| 2nd Harmonic                      |      | -15  | -10  | dBc    | X |         |
| 3rd Harmonic                      |      | -20  | -10  | dBc    | X |         |
| Ref Osc Signal:                   |      |      |      |        |   |         |
| Frequency                         |      | 10   |      | MHz    |   |         |
| Amplitude                         | 3    |      | 5    | Vp-p   |   |         |
| Phase Noise - 1 kHz               |      | -145 |      | dBc/Hz |   |         |
| Input Impedance                   |      | 100  |      | kΩ     |   |         |
| Output Impedance -                |      | 50   |      | Ω      |   |         |

### Package Information

|               |                                     |                 |       |
|---------------|-------------------------------------|-----------------|-------|
| Package Type: | PLL400<br>(0.6 x 0.6 x 0.14 inches) | Drawing Number: | 60080 |
|---------------|-------------------------------------|-----------------|-------|

### Comments

**X** Indicates parameter to be tested 100% in production

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