



PLL Product Specification

Model: PLL350-768(Y) **Rev:** P1 **Date:** 9/1/2006
Customer: SIRENZA MICRODEVICES, INC. **AppNote:** Non-Programmable
Operating Temperature Range: (-40 ° 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 - | | 768 | | MHz | X | |
| Step Size - | | 125 | | kHz | X | Fixed Frequency |
| Settling Time - | | 30 | | mSec | | Power up to lock |
| Output Power - | 0 | 3 | 6 | dBm | X | |
| Output Phase Noise: | | | | | | |
| 5.5 kHz | | -105 | -96 | dBc/Hz | | |
| 10 kHz | | -108 | -102 | dBc/Hz | | |
| 100 kHz | | -134 | -125 | dBc/Hz | X | |
| 1000 kHz | | -155 | -148 | dBc/Hz | | |
| >=3000 kHz | | -162 | -155 | dBc/Hz | | |
| Integrated Phase Noise - .1-5.5 kHz | | -60 | -56 | deg RMS | | dB DSBN |
| Power Supply: | | | | | | |
| VCO/CP | 4.9 | 5 | 5.1 | Volts | X | |
| PLL IC | 2.9 | 3 | 3.1 | Volts | X | |
| Supply Current: | | | | | | |
| VCO/CP | | 35 | 50 | mA | X | |
| PLL IC | | 20 | 25 | mA | | |
| Spurious Product: | | | | | | |
| 100 +/-5.5 kHz | | -95 | -82 | dBc | | |
| 125 kHz | | -88 | -82 | dBc | X | |
| 1000 +/-500 kHz | | -95 | -78 | dBc | | |
| >=3000 +/-500 kHz | | -90 | -85 | dBc | | |
| Reference Feedthrough - | | -97 | -88 | dBc | | |
| Harmonic Suppression: | | | | | | |
| 2nd Harmonic | | -20 | -15 | dBc | X | |
| 3rd Harmonic | | -20 | -15 | dBc | X | |
| Ref Osc Signal: | | | | | | |
| Frequency | | 52 | | MHz | X | |
| Amplitude | 1 | | 3.3 | Vp-p | | |

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| Parameter | Min | Typ | Max | Units | X | Remarks |
|---------------------|-----|-----|------|------------|---|---------|
| Phase Noise - 1 kHz | | | -130 | dBc/Hz | | |
| Input Impedance | | 100 | | k Ω | | |

Package Information

| | | | |
|---------------|--|-----------------|-------|
| Package Type: | PLL350 (0.8 x 0.582 x 0.154 inches) | Drawing Number: | 61054 |
|---------------|--|-----------------|-------|

Comments

X Indicates parameter to be tested 100% in production

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