



## PLL Product Specification

**Model:** PLL250-882      **Rev:** B      **Date:** 6/4/2003  
**Customer:** SIRENZA MICRODEVICES, INC.      **AppNote:** 113 Option 007000  
**Operating Temperature Range:** ( -10 ° to 85 ° C)

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	870		895	MHz	X	
Step Size -		200		kHz	X	
Settling Time - to within 5 deg.		0.4	0.45	mSec		
Output Power:						
RF Switch ON	0	2	4	dBm	X	
RF Switch OFF		-58	-50	dBm	X	
Output Phase Noise:						
1 kHz		-92	-88	dBc/Hz		
100 kHz		-124	-113	dBc/Hz		
200 kHz		-133	-123	dBc/Hz		
400 kHz		-141	-135	dBc/Hz	X	
1800 kHz		-154	-150	dBc/Hz		
3000 kHz		-158	-155	dBc/Hz		
Power Supply:						
VCC 1: VCO, PLL CP	5.75	6	6.25	Volts	X	
VCC 2: Amp	4.75	5	5.25	Volts	X	
VCC 3: PLL IC,Switch	3.15	3.3	3.45	Volts	X	
Supply Current:						
VCC 1		15	40	mA	X	
VCC 2		45	80	mA		
VCC 3		10	15	mA		
Spurious Product:						
200 kHz		-92	-80	dBc	X	
400 kHz		-103	-90	dBc		
1800 kHz		-120	-100	dBc		
non-harmonic			-100	dBc		
Reference Feedthrough -		-105	-95	dBc		
Harmonic Suppression:						
2nd Harmonic		-22	-18	dBc	X	
3rd Harmonic		-35	-25	dBc	X	
Ref Osc Signal:						
Frequency		52		MHz		

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**Model:** PLL250-882

1/20/2004

**Rev:** B

Parameter	Min	Typ	Max	Units	X	Remarks
Amplitude	0.75	1	1.25	Vp-p		
Input Impedance		100		k $\Omega$		
Output Impedance -		50		$\Omega$		
Output VSWR -		1.7:1				

**Package Information**

Package Type:	PLL250	Drawing Number:	61070
Dimensions:	1 x 1 x 0.252 inches	Drawing Revision:	B

**Comments**

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

Switching Phase Error: By Design: < 50 us, 2 deg. typical - 5 deg. max.; > 50 us, 1 deg. max

Max Phase Noise Peaking = 5 dBc/Hz, By Design

All Power Supplies decoupled with Low-Pass filter

All programming lines decoupled with RCR Low-Pass filter

Pin 19 decoupled with RCR Low-Pass filter

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