



## PLL Product Specification

**Model:** PNP-1500-P22-G      **Rev:** A      **Date:** 8/11/2010  
**Customer:** RF MICRO DEVICES      **AppNote:**  
**Operating Temperature Range:** ( -40 ° to 85 ° C)

**RoHS Compliant**

Parameter	Min	Typ	Max	Units	X	Remarks
Frequency Range -	1000		2000	MHz	X	
Step Size -	200		10000	kHz	X	
Output Power -	6	8	10	dBm	X	
Output Phase Noise:						
1 kHz		-100	-90	dBc/Hz		
10 kHz		-100	-95	dBc/Hz		
100 kHz		-118	-113	dBc/Hz		
1000 kHz		-140	-135	dBc/Hz		
Power Supply:						
	12.3	12.5	12.7	Volts	X	V1
	2.7	3	3.3	Volts	X	V2
Supply Current:						
		50	60	mA	X	I1
		25	35	mA	X	I2
Spurious Product:						
>500 kHz		-80	-70	dBc		STEP>500kHz
200 kHz		-70	-60	dBc	X	STEP=200kHz
500 kHz		-75	-65	dBc		STEP=500kHz
Reference Feedthrough -		-80	-70	dBc		
Harmonic Suppression:						
2nd Harmonic		-18	-12	dBc		
Ref Osc Signal:						
Frequency	10	20	250	MHz		
Amplitude	0		3.3	Vp-p		DC Coupled

### Package Information

Package Type:	P22 (0.6 x 0.6 x 0.22 inches)	Drawing Number:	UP-P22
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### Comments

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

Specification test conditions, V1 = 12.5V, V2 = 3V, REF = 20MHz.

Reference Input Level -5dBm min / +5dBm max - AC Coupled.

RoHS status based on EU Directive 2002/95/EC (at time of this document revision).

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