



## PLL Product Specification

**Model:** PNP-1181-P22-G      **Rev:** B      **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 -	3160		3380	MHz	X	
Step Size -	2500		10000	kHz	X	
Output Power -	0	3	6	dBm	X	
Output Phase Noise:						
1 kHz		-90	-85	dBc/Hz		
10 kHz		-95	-90	dBc/Hz		
100 kHz		-115	-110	dBc/Hz		
1000 kHz		-135	-130	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 -		-70	-60	dBc	X	Step=2500kHz
Reference Feedthrough -		-80	-70	dBc		
Harmonic Suppression:						
2nd Harmonic		-15	-10	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
---------------	-------------------------------	-----------------	--------

### Comments

**X** Indicates parameter to be tested 100% in production  
 Reference Input Level -5dBm min / +5dBm max - AC Coupled.  
 Specification test conditions, V1 = 12.5V, V2 = 3V, REF = 20MHz.

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

The information in this publication is believed to be accurate and reliable. However, no responsibility is assumed by RF Micro Devices, Inc. ("RFMD") for its use, nor for any infringement of patents, or other rights of third parties, resulting from its use. No license is granted by implication or otherwise under any patent or patent rights of RFMD. RFMD reserves the right to change component circuitry, recommended application circuitry and specifications at any time without prior notice.