imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





PNP-1090-P22-G

PLUG-N-PLAY WIDEBAND SYNTHESIZER

Package: P22, 15.24mm x 15.24mm x 5.58mm

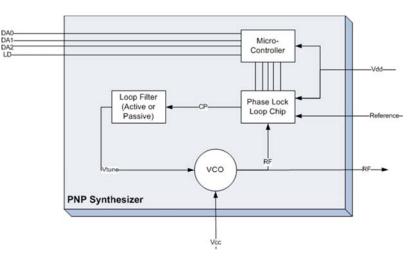


Features

- Internal Microcontroller
- Programmable START/STOP/Step Size
- SPI BUS Compatible
- Frequency: 1500MHz to 2500MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 15.24mm x 15.24mm x 5.58mm (0.6in x 0.6in x 0.22in)

Applications

- Highly Integrated Radio Designs
- High-Performance Radios
- Mircrowave Radio IF Conversion
- Instrumentation
- Frequency Synthesizers



Functional Block Diagram

Product Description

RFMD offers complete Plug-N-Play Synthesizers (PNPs) for low noise frequency synthesizer applications consisting of a VCO, PLL, loop filter and Micro-controller interface. The PNP family of RF signal sources is the world's first family of truly configurable frequency synthesizer modules. These synthesizers can make quick adjustments with amazing accuracy, speed, and performance.

Ordering Information

PNP-1090-P22-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

🗌 GaAs HBT	□ SiGe BiCMOS	🗌 GaAs pHEMT	🗌 GaN HEMT
GaAs MESFET	Si BiCMOS	□_Si CMOS	BiFET HBT
🗌 InGaP HBT	SiGe HBT	🗹 Si BJT	

RF MICRO DEVICES®, RRMD®, Optimum Technology Matching®, Enabling Wireless Connectivity¹⁴, PowerStard*, POLARIS¹⁴⁴ TOTAL RADIO¹⁴⁴ and UttimateBlue¹⁴⁴ are trademarks of RFMD, LLC, BLUETOOTH is a trade mark owned by Bulendont 361, Cinc, U.S.A. and Indersed for use by PFMD, All other trade names's and redistred trademarks and redistred trademarks.

7628 Thorndike Road, Greensboro, NC 27409-9421 · For sales or technical support, contact RFMD at (+1) 336-678-5570 or customerservice@rfmd.com.

PNP-1090-P22-G



Absolute Maximum Ratings

6			
Parameter	Rating	Unit	
Operating Ambient Temperature	-40 to +85	°C	
Storage Temperature	-55 to +125	°C	



Caution! ESD sensitive device.

Exceeding any one or a combination of the Absolute Maximum Rating conditions may cause permanent damage to the device. Extended application of Absolute Maximum Rating conditions to the device may reduce device reliability. Specified typical performance or functional operation of the device under Absolute Maximum Rating conditions is not implied.

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.



RoHS (Restriction of Hazardous Substances): Compliant per EU Directive 2002/95/EC.

Parameter		Specification		11	Condition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	1500		2500	MHz	
Step Size	5000		10000	kHz	
Output Power	5	7	9	dBm	
Output Phase Noise		-95	-90	dBc/Hz	1kHz
		-100	-95	dBc/Hz	10kHz
		-100	-95	dBc/Hz	100kHz
		-130	-125	dBc/Hz	1000kHz
Spurious Product		-70	-60	dBc	5000kHz step size
Reference Feedthrough		-80	-70	dBc	
Second Harmonic		-20	-10	dBc	
Reference Oscillator Signal	10	20	250	MHz	Frequency
	0		3.3	V _{P-P}	Amplitude - DC coupled
Power Supply			,	L	
Operating Voltage	12.3	12.5	12.7	V	V1
	2.7	3	3.3	V	V2
Supply Current		50	60	mA	11
Notoo		25	35	mA	12

Notes:

1) Reference Input Level: -5dBm minimum, +5dBm maximum, AC coupled.

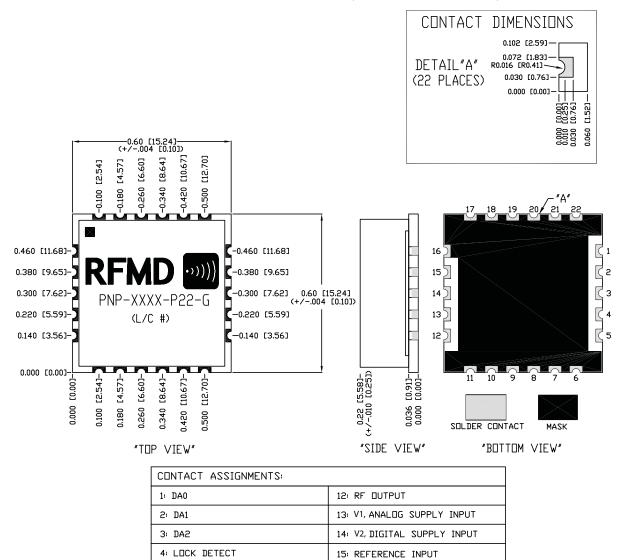
2) Specification Test Conditions: V1 = 12.5V, V2 = 3V, REF = 20MHz.





Package Drawing & Pin Outs

15.24mm x 15.24mm x 5.58mm (0.6in x 0.6in x 0.22in)



5: NO CONNECT

ALL OTHER CONTACTS ARE GROUND