# 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

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# PNP-1622-P22-G

## PLUG-N-PLAY WIDEBAND SYNTHESIZER

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

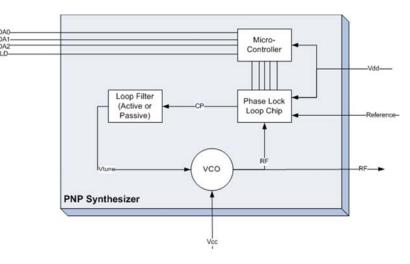


### Features

- Internal Microcontroller
- Programmable START/STOP/Step Size
- SPI BUS Compatible
- Frequency: 2525MHz to 2735MHz
- Resonator: Ceramic
- 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-1622-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	

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

# PNP-1622-P22-G



#### **Absolute Maximum Ratings**

•	0		
Parameter	Rating	Unit	
Operating Ambient Temperature	-40 to +85	°C	ĺ
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.

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

Parameter		Specification		11	Condition
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	2525		2735	MHz	
Step Size	250		10000	kHz	
Output Power	0	3	6	dBm	
Output Phase Noise		-92	-85	dBc/Hz	1kHz
		-102	-96	dBc/Hz	10kHz
		-130	-125	dBc/Hz	100kHz
		-150	-145	dBc/Hz	1000kHz
Spurious Product		-70	-60	dBc	250kHz step size
Reference Feedthrough		-80	-70	dBc	
Second Harmonic		-15	-10	dBc	
Reference Oscillator Signal	10	10	250	MHz	Frequency
	0		3.3	V <sub>P-P</sub>	Amplitude - DC coupled
Power Supply					
Operating Voltage	12.3	12.5	12.7	V	V1
	2.7	3	3.3	V	V2
Supply Current		54	68	mA	11
Natao		25	35	mA	12

Notes:

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

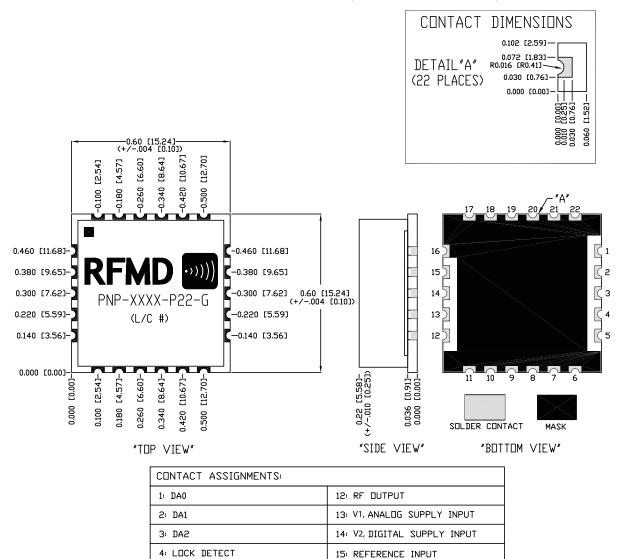
2) Specification Test Conditions: V1 = 12.5V, V2 = 3V, REF = 10MHz.





# **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