

PNP-752-P22-G

PLUG-N-PLAY WIDEBAND SYNTHESIZER

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

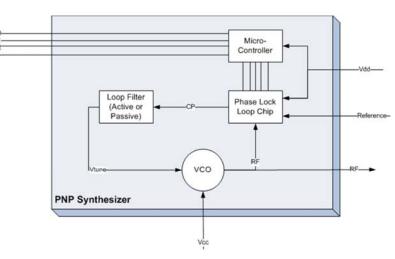


Features

- Internal Microcontroller
- Programmable START/STOP/Step Size
- SPI BUS Compatible
- Frequency: 950MHz to 2150MHz
- 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-752-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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PNP-752-P22-G



Absolute Maximum Ratings

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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.

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

Parameter	Specification		Unit	Condition	
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	950		2150	MHz	
Step Size	200		10000	kHz	
Output Power	5	7	9	dBm	
Output Phase Noise		-90	-85	dBc/Hz	1kHz
		-90	-85	dBc/Hz	10kHz
		-110	-105	dBc/Hz	100kHz
		-132	-127	dBc/Hz	1000kHz
Spurious Product		-70	-60	dBc	200kHz step size
Reference Feedthrough		-75	-65	dBc	
Second Harmonic		-20	-10	dBc	
Reference Oscillator Signal		10		MHz	Frequency
	0		3.3	V _{P-P}	Amplitude - DC coupled
Power Supply	-				
Operating Voltage	14.5	15	15.5	V	V1
	2.7	3	3.3	V	V2
Supply Current		50	60	mA	11
Netzer		25	35	mA	12

Notes:

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

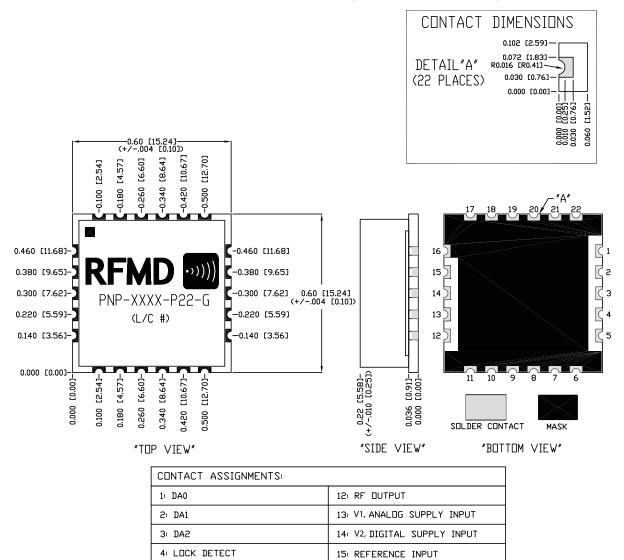
2) Specification Test Conditions: V1 = 15V, V2 = 3V, REF = 10MHz.





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