

Package: L22, 12.7mm x 12.7mm x 4.57mm

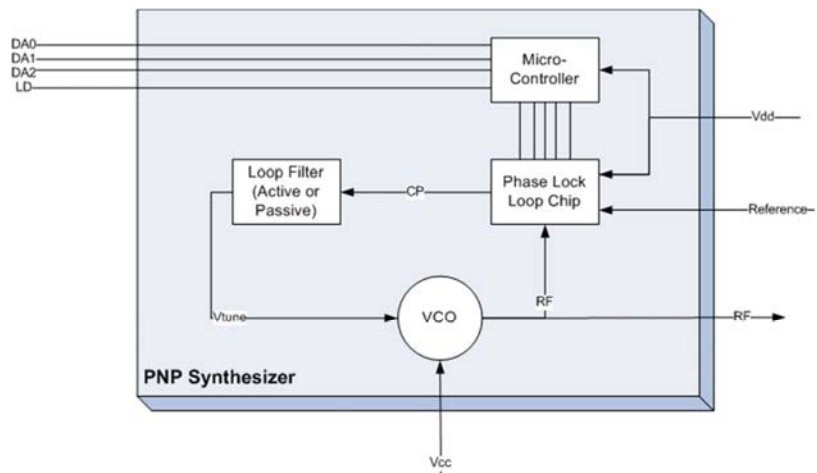


Features

- Internal Microcontroller
- Programmable START/STOP/Step Size
- SPI BUS Compatible
- Frequency: 1100MHz to 1200MHz
- Resonator: Microstrip
- PCB: Rogers
- Package Size: 12.7mm x 12.7mm x 4.57mm (0.5in x 0.5in x 0.18in)

Applications

- Highly Integrated Radio Designs
- High-Performance Radios
- Microwave 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-1150-L22-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

- | | | | |
|--------------------------------------|--------------------------------------|--|------------------------------------|
| <input type="checkbox"/> GaAs HBT | <input type="checkbox"/> SiGe BiCMOS | <input type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> GaN HEMT |
| <input type="checkbox"/> GaAs MESFET | <input type="checkbox"/> Si BiCMOS | <input type="checkbox"/> Si CMOS | <input type="checkbox"/> BiFET HBT |
| <input type="checkbox"/> InGaP HBT | <input type="checkbox"/> SiGe HBT | <input checked="" type="checkbox"/> Si BJT | <input type="checkbox"/> LDMOS |

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Absolute Maximum Ratings

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.	Typ.	Max.		
Overall					
Frequency Range	1100		1200	MHz	
Step Size	25		10000	kHz	
Output Power	-2	0	2	dBm	
Output Phase Noise		-93	-88	dBc/Hz	1kHz
		-108	-103	dBc/Hz	10kHz
		-130	-125	dBc/Hz	100kHz
		-150	-145	dBc/Hz	1000kHz
Spurious Product		-70	-55	dBc	62.5kHz step size
		-70	-60	dBc	250kHz step size
		-80	-70	dBc	10MHz step size
Reference Feedthrough		-70	-65	dBc	
Second Harmonic		-18	-12	dBc	
Reference Oscillator Signal	10	20	250	MHz	Frequency
	0		3.3	V _{P-P}	Amplitude - DC coupled
Power Supply					
Operating Voltage	4.9	5	5.1	V	V1
	2.7	3	3.3	V	V2
Supply Current		35	40	mA	I1
		25	35	mA	I2

Notes:

- 1) Reference Input Level: -5dBm minimum, +5dBm maximum, AC coupled.
- 2) Specification Test Conditions: V1 = 5V, V2 = 3V, REF = 20MHz.

Package Drawing & Pin Outs

12.7mm x 12.7mm x 4.57mm (0.5in x 0.5in x 0.18in)

