

PNP-850-L22-G

PLUG-N-PLAY NARROWBAND SYNTHESIZER

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

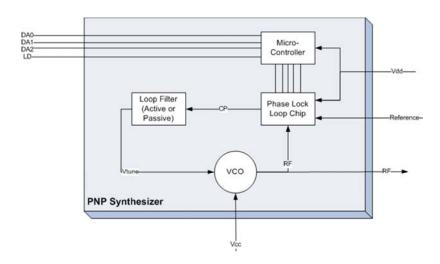


Features

- Internal Microcontroller
- Programmable START/STOP/Step Size
- SPI BUS Compatible
- Frequency: 800MHz to 900MHz
- 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
- 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-850-L22-G Contact us at 1-480-756-6070

Optimum Technology Matching® Applied

☐ GaAs HBT	☐ SiGe BiCMOS	☐ GaAs pHEMT	☐ GaN HEM
GaAs MESFET	☐ Si BiCMOS	□ Si CMOS	☐ BiFET HBT
☐ InGaP HBT	☐ SiGe HBT	▼ Si BJT	☐ 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		I I sa i de	Opendition	
	Min.	Тур.	Max.	Unit	Condition
Overall					
Frequency Range	800		900	MHz	
Step Size	25		10000	kHz	
Output Power	-2	0	2	dBm	
Output Phase Noise		-92	-87	dBc/Hz	1kHz
		-108	-103	dBc/Hz	10kHz
		-130	-125	dBc/Hz	100kHz
		-150	-145	dBc/Hz	1000 kHz
Spurious Product		-70	-60	dBc	100kHz step size
		-75	-65	dBc	1000kHz step size
		-60	-50	dBc	25kHz step size
		-65	-55	dBc	50kHz step size
Reference Feedthrough		-70	-60	dBc	
Second Harmonic		-15	-10	dBc	
Reference Oscillator Signal	10	20	250	MHz	Frequency
	0		3.3	V _{P-P}	Amplitude - DC coupled
Power Supply			1	ı	
Operating Voltage	4.9	5	5.1	V	V1
	2.7	3	3.3	V	V2
Supply Current		30	35	mA	l1
		25	30	mA	12

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)

