

Package: PLL350, 20.32mm x 14.78mm x 3.91mm

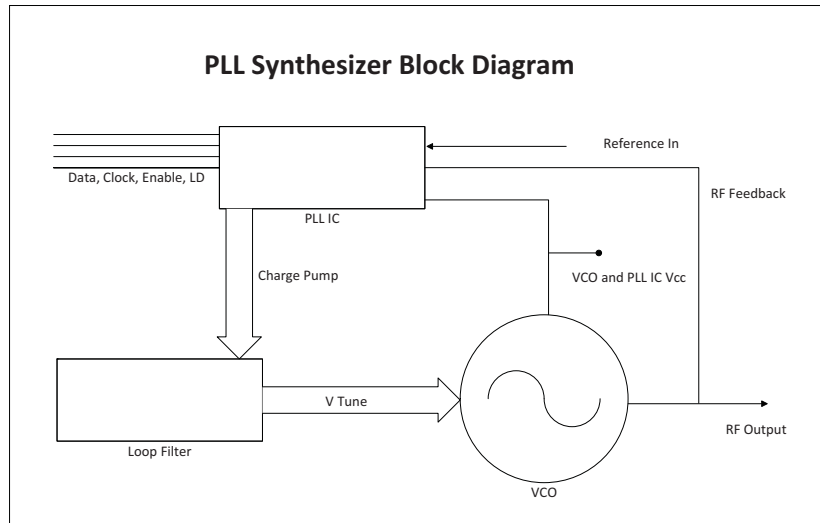


Features

- Low Phase Noise / Fast Settling Time
- SPI Bus Compatible
- Frequency: 1230MHz to 1290MHz
- Resonator: Aircoil
- PCB: FR4 and S1170
- Package Size: 20.32mm x 14.78mm x 3.91mm (0.8in x 0.582in x 0.154in)

Applications

- Cellular Infrastructure
- RFID
- General Wireless



Functional Block Diagram

Product Description

RFMD® offers complete Phase Locked Modules (PLLs) integrating a PLL IC, a VCO, loop filter components, and buffer amplifiers. RFMD has a broad selection of oscillator topologies, resonator technologies, supply voltages, and substrate materials available, allowing us to provide customers with a PLL solution that meets the specific cost, performance, and size requirements for their applications.

Ordering Information

PLL350-1260Y 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.

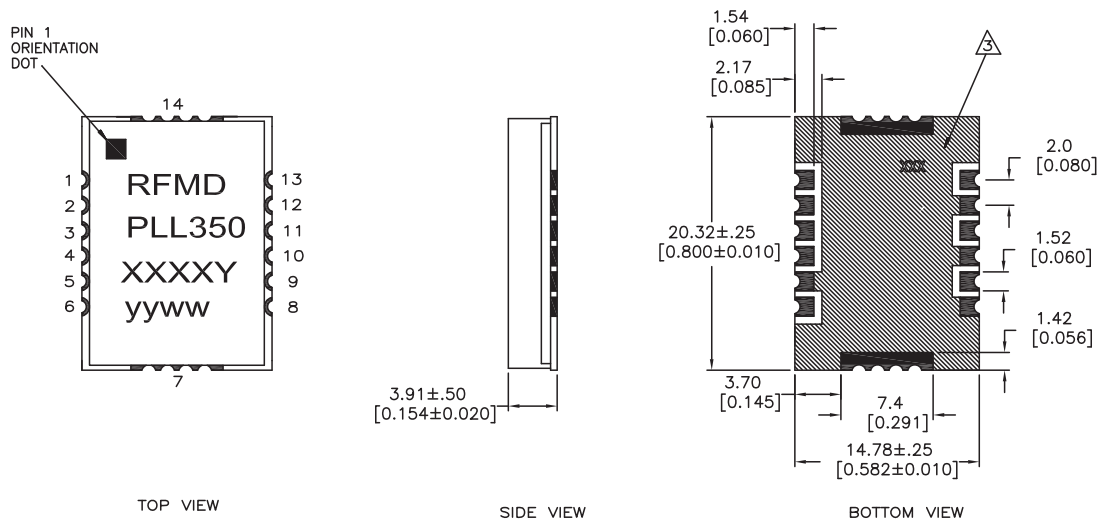
Parameter	Specification			Unit	Condition
	Min.	Typ.	Max.		
Overall					
Frequency Range	1230	1260	1290	MHz	
Step Size		100		kHz	
Settling Time		15	150	ms	To within 1.0kHz
Output Power	-1	2	5	dBm	
Output Phase Noise		-73	-68	dBc/Hz	1kHz
		-97	-92	dBc/Hz	10kHz
		-112	-106	dBc/Hz	30kHz
Spurious Product		-75	-70	dBc	100kHz
Reference Feedthrough		-75	-70		
Harmonic Suppression		-15	-10	dBc	2nd harmonic
		-15	-10	dBc	3rd harmonic
Reference Oscillator Signal		10		MHz	Frequency
	3		5	Vp-p	Amplitude
		-145		dBc/Hz	Phase noise - 1kHz
		100		kΩ	Input impedance
Output Impedance		50		Ω	
Power Supply					
Operating Voltage	4.75	5	5.25	V	
Supply Current		40	50	mA	

PLL Synthesizer Programming

Refer to Application Note 113, Option 20700.

Package Drawing & Pin Outs

20.32mm x 14.78mm x 3.91mm (0.8in x 0.582in x 0.154in)



PIN OUT FOR PLL	
PIN	APPLICATION
1	VCC PLL
3	REFERENCE IN
5	VCC VCO
8	RF OUT
10	LOCK DETECT
11	CLOCK
12	DATA
13	ENABLE

ALL OTHER PINS ARE GROUND

NOTE, UNLESS OTHERWISE SPECIFIED:

1. THE METAL CASE IS GROUND.
2. ALL HALF VIA CONTACTS ARE PLATED THRU FROM THE PAD ON THE TOP SIDE TO THE PAD ON THE BOTTOM SIDE OF THE BOARD.
3. HATCHED AREAS ARE GROUND AND ARE COVERED WITH LPI SOLDER MASK OVER BARE COPPER. ALL CONTACT AREAS ARE PLATED. SIGNAL VIAS MAY BE LOCATED WITHIN GROUND PLANE.
4. CROSS HATCHED AREA INDICATES AREA WHERE SOLDER MASK SHOULD BE APPLIED TO MOUNTING BOARD.
5. SUBSTRATE MATERIAL: FR-4.
6. XXXX REPRESENTS THE MODEL NUMBER.
7. yyww IS THE DATE CODE.
8. Y AT THE END OF MODEL NUMBER DESIGNATES RoHS COMPLIANCE.
9. DIMENSIONS ARE IN MILLIMETERS AND [INCHES].