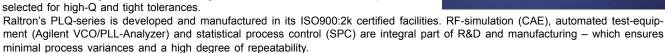


Features

Applications

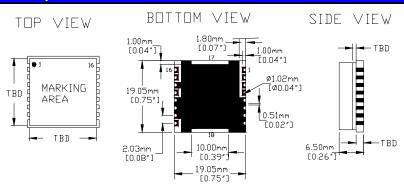
- Frequency up to 3 GHz
- Low Profile available: 3.9 mm
- Low Phase Noise
- **Telecommunications**
- High Performance Radio
- **Base Stations**

Custom options available Instrumentation **Description** The PLQ-type is a RF PLL synthesizer designed to meet the requirements for a variety of applications. Stationary or battery-operated, the unit is available in many different versions from LowNoise, HighPower, LinearTuning, LowProfile or WideBand. Components are





Mechanical Specification



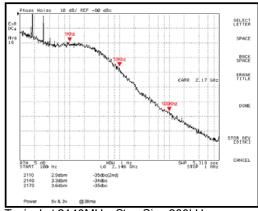
	I OUT FOR PLL
PIN	PIN OUT FOR PLL
1	CLOCK
2	DATA
3	ENABLE
4	□SC. IN
9	Vcc (dc+5V IN)
13	REF. OUT
15	Vcp (dc+5V IN)
16	LOCK DETECT
ALL	OTHERS PINS ARE GROUND

Electrical Specification							
PARAMETER	COMMENTS, EXAMPLES	SYMBOL	MIN	TYP	MAX	UNIT	
Max Frequency	Currently available in PLR-package	fo	700		3000	MHz	
Step Size	Based-on PLL IC used.		10		1000	KHz	
Supply Voltage	Battery operated 3.3V and 5V	Vcc	3.3		5	V	
Supply Current(VCO/PLL)	Dependent on Frequency and Output Power	lcc			40	mA	
Output Power	Output Power Tolerance is typ. ±6dBm ± 2 dB	Pout	4	+6	+8	dBm	
Harmonic Suppression	Dependent on Tuning Range and Freq	a(2fo)		-25		dBc	
Input Frequancy		fin		10		MHz	
Input Frequency Amplitude		fin(A)	0.5		2	Vp-p	

General Specification

- 1. Load Impedance is 50 Ohms.
- 2. Operating temperature range is typically -40°C...+85°C.
- 3. The package is non-hermetic. Substrate is glass-reinforced laminate, the cover is folded nickel-silver.
- 4. Bypass-capacitors (ceramic) from Vcc to Ground are recommended: 1nF||100pF.
- 5. Customized specifications may deviate from this General Specification.
- 6. Phase-noise performance depends on the individual specification. Phase Noise is strongly dependent on (a) frequency (b) supply voltage and (c) step size.
- 7. PLL Ics Available; AD4113 LMX2526
- 8. For other requirements contact factory.

Phase Noise



Typical at 2140MHz, Step Size 200kHz