

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com

Features and Benefits

Frequency Range: 2811-2975MHz Supply Voltage: 5.0V Current: 70mA Max. Output power: +5.5dBm Max. Phase noise: -88dBc/Hz@10KHz Operating temperature: -30°C--+80°C Size: 12.7x12.7x2.8mm Package type: SMD **PLL1919BQ-IT-2811MHz-2975MHz-A** CÌFFËGJÏÍTP:ÁÙTÖÁÚ@œe^ÁŜ[&\^åÅŜ[[]ÁÇÚŠŠDÁ T[åĭ|^



Typical Applications

SATCOM radio link Point-to-Point radio Receiver MMDS Test Equipment WiMAX Radar

Mechanical Drawing & Pin Connections



--+1.1

Pin Connections:

	• 1	12	13	• •	• <u>•</u>	°.	(1)
 	Top View	12.7±0.2		Bottom	√iew		
	40.7:0.0		0.95	<u> </u>		•	0.7 1.85±0.1
ſ		2.8±0.2					

Pin Function Clock 1 2 Data 3 Enable 4 N.C. GND 5 6 GND 7 Vcc(Vco) 8 GND 9 RF Out 10 GND 11 Vcp(PLL) 12 Lock Detect

Unit in mm 1mm = 0.0394 inches

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Specifications

Parameter	Units	Min.	Typical	Max.
Operating Frequency Range	MHz	2811	2893	2975
Output Power	dBm	+0.5	+3	+5.5
Channel Step Size	KHz		50	
Lock Time	ms			100
Lock State	Vdc	4.6		
Unlock State	Vdc			0.4
Output Impedance	Ω		50	
Phase Noise @1kHz offset	dBc / Hz		-62	
Phase Noise @10kHz offset	dBc / Hz		-88	-82
2nd Harmonic	dBc			-15
Spurious	dBc			-45
Internal Reference Frequency (Ref)	MHz		13	
Frequency stability (@-30~+80°C)	ppm			±2.5
VCO Power Supply (Vcc) Voltage	Vdc		5	
Current Consumption	mA			70
PLL Power Supply (Vcp) Voltage	Vdc		5	
Operating Temperature Range	°C	-30		+80

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