Plerow™ APL1890-R

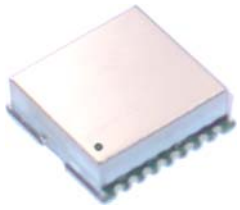
PLL Module

Features

- +3 dBm Output Level at 1890.25 MHz
- 2nd Harmonic : < -20 dBc
- Spurious Level : < -75 dBc
- Lock Time : < 10ms
- 80 mA Current Consumption
- Strip-line Resonator

Description

The plerow™ PLL synthesizer module was designed for use in wireless and wireline systems in a wide range of frequency from 50 MHz to 6 GHz. ASB's PLL provides exceptionally low spurious and phase noise performance with fast locking time and low current consumption. All products are available in a surface-mount type package.



Specifications

Parameter		Unit	Min.	Typical	Max.
Frequency Range		MHz		1890.25	
Output Power		dBm	+0	+3	+5
Supply Voltage		V	4.75	5.00	
Current Consumption		mA		38	80
Channel Step Size		kHz			
2nd Harmonics		dBc			-20
Spurious Level		dBc			-75
Lock Time		ms			
Reference Frequency		MHz		10	
Reference Input Level		dBm	-5	0	5
Phase Noise (C / N)	@ 100 Hz	dBc/Hz		-70	
	@ 1 kHz			-85	
	@ 10 kHz			-105	
	@ 100 kHz			-120	
Output Impedance		Ω		50	
Operating Temp. Range		°C	-30	+25	+70
Package Type & Size		mm	SMT, 19.0W×19.0L×5.8H		

1) Measurement conditions are as follows: T = 25°C, V_{CC} = 5.0 V, Freq. = 1890.25 MHz, 50 ohm system.

More Information

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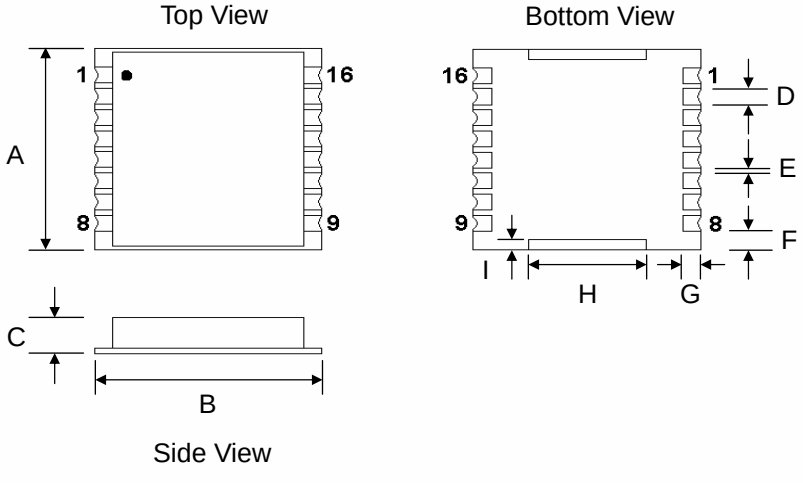
Outline Drawing



Pin Configuration	
1	Ground
2	Ground
3	Ground
4	OSC IN
9	VCC (VCO)
13	RF OUT
15	VCP (PLL)
16	LOCK DETECT
Others	Ground

Dimension (mm)	
A	19.0
B	19.0
C	5.8
D	1.5
E	0.5
F	1.75
G	1.35
H	15.0
I	0.9
Tolerance: ± 0.2	