

Features

- 4 dBm Output Level at 909 MHz
- Channel Step Size : 250 kHz
- 2nd Harmonic : < -25 dBc
- Spurious Level : < -70 dBc
- Lock Time : < 10 ms
- 35 mA Current Consumption

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		909	
Output Power	dBm	2	4	6
Supply Voltage	V	4.75	5	5.25
Current Consumption	mA		20	35
Channel Step Size	kHz		250	
2 nd Harmonics	dBc		-25	-20
Spurious Level	dBc		-70	-65
Lock Time	ms		5	10
Reference Frequency	MHz		13	
Reference Input Level	dBm			
Phase Noise (C / N)				
@ 1 kHz			-78	-72
@ 10 kHz	dBc/Hz		-105	-100
@ 100 kHz			-120	-115
Output Impedance	Ω		50	
Operating Temp. Range	°C	-40	25	80
Package Type & Size	mm	SMT, 15.0W×15.0L×3.5H		

1) Measurement conditions are as follows: T = 25°C, V_{CC} = 5 V, Freq. = 909 MHz, 50 ohm system.
 2) Frequency stability of internal ref. TCXO is +/- 2.5 ppm (max.) over the operating temperature range.

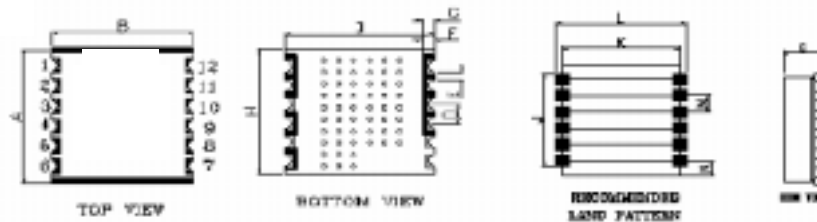
More Information

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Outline Drawing



Dimension													
Symbol	A	B	C	D	E	F	G	H	I	J	K	L	M
Mm	14.60 ±0.1	14.60 ±0.1	3.50	2.03	0.51	0.61	1.50	15.24 ±0.2	15.24 ±0.2	11.68	14.02	17.07	2.54 2.03

Pin Out for PLL			
Pin No.	Application	Pin No.	Application
1	GND	7	VCC (VCO)
2	GND	10	RF OUT
3	GND	11	VCC (PLL)
4	GND	12	LOCK DETECT
All other Pins are Grounded			