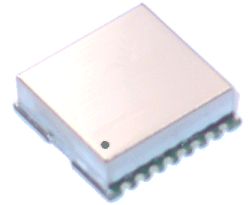


## Features

- 4 dBm Output Level at 830 MHz
- Channel Step Size : 200 kHz
- 2<sup>nd</sup> Harmonic : < -25 dBc
- Spurious Level : < -70 dBc
- Lock Time : < 10 ms
- 40 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		830	
Output Power	dBm	3	4	5
Supply Voltage	V	4.75	5	5.25
Current Consumption	mA			40
Channel Step Size	kHz		200	
2 <sup>nd</sup> Harmonics	dBc			-25
Spurious Level	dBc			-70
Lock Time	ms		3	10
Reference Frequency	MHz		13	
Reference Input Level	dBm			
Phase Noise (C / N)				
@ 1 kHz				
@ 10 kHz	dBc/Hz		-108	-104
@ 100 kHz				
Output Impedance	Ω		50	
Operating Temp. Range	°C	-40	25	80
Package Type & Size	mm	SMT, 15.0W×15.0L×3.5H		

## More Information

Website: [www.asb.co.kr](http://www.asb.co.kr)  
E-mail: [sales@asb.co.kr](mailto:sales@asb.co.kr)

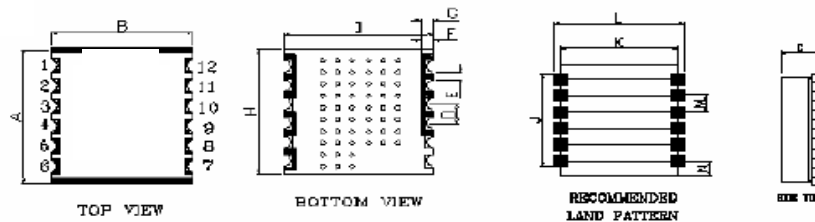
Tel: (82) 42-528-7223  
Fax: (82) 42-528-7222

ASB Inc., 4th Fl. Venture Town Bldg., 367-17 Goijeong-Dong, Seo-Gu, Daejeon 302-716, Korea

1) Measurement conditions are as follows: T = 25°C, V<sub>CC</sub> = 5 V, Freq. = 830 MHz, 50 ohm system.

2) Frequency stability of internal ref. TCXO is +/- 2.5 ppm (max.) over the operating temperature range.

## Outline Drawing



Dimension														
Symbol	A	B	C	D	E	F	G	H	I	J	K	L	N	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			