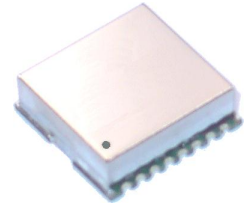


## Features

- 5 dBm Output Level at 600 MHz
- Channel Step Size: 100 kHz
- 2<sup>nd</sup> Harmonic: < -15 dBc
- Spurious Level: < -60 dBc
- Lock Time : < 15 ms
- Current Consumption: < 40 mA

## 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	550	600	650
Output Power	dBm	2	4	6
Supply Voltage	V	4.8	5	5.2
Current Consumption	mA		28	40
Channel Step Size	kHz		100	
2 <sup>nd</sup> Harmonics	dBc		-23	-15
Spurious Level	dBc		-68	-60
Reference Frequency	MHz		13	
Reference Input Level	dBm	0	2	5
Phase Noise (C / N)				
@ 1 kHz			-77	-70
@ 10 kHz	dBc/Hz		-102	-93
@ 100 kHz			-118	-114
Output Impedance	Ω		50	
Operating Temp. Range	°C	-30	25	80
Package Type & Size	mm	SMT, 15.0W×15.0L×3.5H		

1) Measurement conditions are as follows: T = 25°C, V<sub>CC</sub> = 5 V, Freq. = 600 MHz, 50 ohm system.

## More Information

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

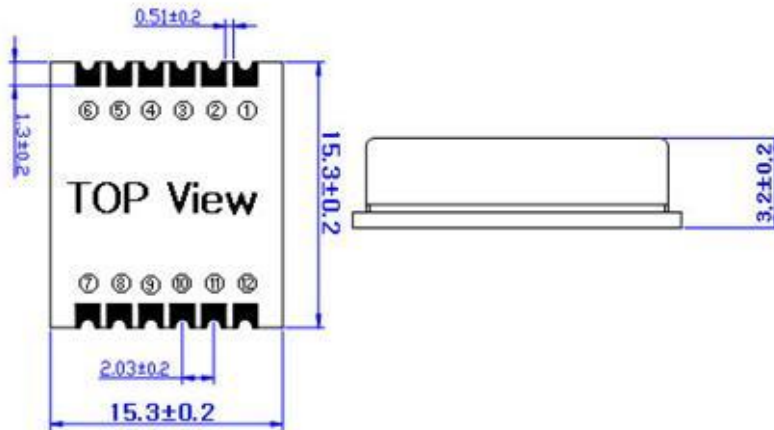
Tel: (82) 42-528-7220  
Fax: (82) 42-528-7222

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

Outline Drawing

APLT0000-T Type

Type	Dimension
PLL IC + VCO + TCXO	15.3 x 15.3 x 3.2



Pin Out for PLL			
Pin No.	Application	Pin No.	Application
1	CLOCK	7	VCC (VCO)
2	DATA	10	RF OUT
3	ENABLE	11	VCC (PLL)
4	GROUND	12	LOCK DETECT
All other Pins are Grounded / Internal TCXO			

