

## Features

- + 5dBm Output Level at 766.5 MHz
- Channel Step Size : 100 kHz
- 2<sup>nd</sup> Harmonic : < - 25dBc
- Spurious Level : < - 70dBc
- Lock Time : < 10 ms
- 30mA 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    | 761.7                 | 766.5   | 771.3 |
| Output Power              | dBm    | 3                     | 5       | 7     |
| Supply Voltage            | V      | 4.7                   | 5       | 5.3   |
| Current Consumption       | mA     |                       | 30      |       |
| Channel Step Size         | kHz    |                       | 100     |       |
| 2 <sup>nd</sup> Harmonics | dBc    |                       | -25     |       |
| Spurious Level            | dBc    |                       | -70     |       |
| Lock Time                 | ms     |                       | 3       | 10    |
| Reference Frequency       | MHz    |                       | 10      |       |
| Reference Input Level     | dBm    | -5                    | 2       | 7     |
| Phase Noise (C / N)       |        |                       |         |       |
| @ 1 kHz                   | dBc/Hz |                       | -80     |       |
| @ 10 kHz                  |        |                       | -103    |       |
| @ 100 kHz                 |        |                       | -120    |       |
| Output Impedance          | Ω      |                       | 50      |       |
| Operating Temp. Range     | °C     | -40                   | 25      | 85    |
| Package Type & Size       | mm     | SMT, 19.0W×19.0L×5.8H |         |       |

1) Measurement conditions are as follows: T = 25°C, V<sub>CC</sub> = 5.0 V, Freq. = 766.5 MHz, 50 ohm system.

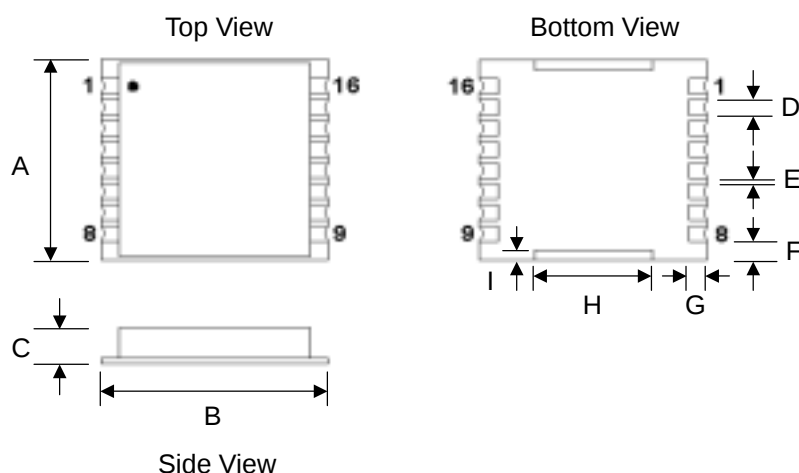
## More Information

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 Gojeong-Dong,  
Seo-Gu, Daejeon 302-716, Korea

## Outline Drawing



| Pin Configuration |             |
|-------------------|-------------|
| 1                 | CLOCK       |
| 2                 | DATA        |
| 3                 | ENABLE      |
| 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 |      |