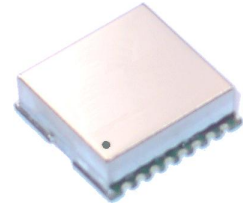


Features

- 3dBm Output Level at 832.5 MHz
- Channel Step Size : 100kHz
- 2nd Harmonic: < - 20dBc
- Spurious Level : < - 70dBc
- Lock Time : < 10ms
- 30mA 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 | 817.5 | 832.5 | 847.5 |
| Output Power | dBm | 1 | 3 | 5 |
| Supply Voltage | V | 4.7 | 5.0 | 5.3 |
| Current Consumption | mA | | 25 | 30 |
| Channel Step Size | kHz | | 100 | |
| 2 Harmonics (Fundamental) | dBc | | -25 | -20 |
| Spurious Level | dBc | | -72 | -68 |
| Lock Time | ms | | 3 | 10 |
| Reference Frequency | MHz | | 10 | |
| Reference Input Level | dBm | -5 | 0 | 5 |
| Phase Noise (C / N) | | | | |
| @ 1 kHz | | | -80 | -75 |
| @ 10 kHz | dBc/Hz | | -105 | -100 |
| @ 100 kHz | | | -120 | -115 |
| 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_{CC} = 5 V, Freq. = 832.5 MHz, 50 ohm system.

More Information

Website: www.asb.co.kr
E-mail: sales@asb.co.kr

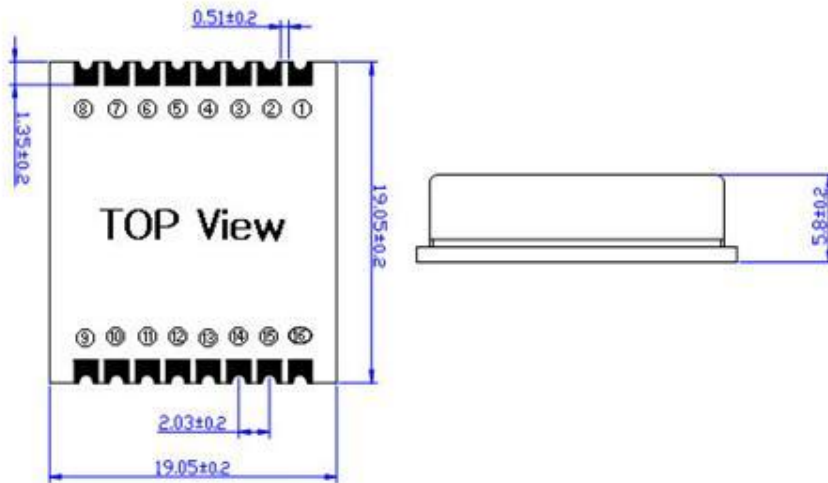
Tel: (82) 42-528-7220
Fax: (82) 42-528-7222

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

Outline Drawing

APL0000 Type

| Type | Dimension |
|-------------------------|---------------|
| Standard (PLL IC + VCO) | 19 x 19 x 5.8 |



| Pin Out for PLL | | | |
|-----------------------------|-------------|---------|-------------|
| Pin No. | Application | Pin No. | Application |
| 1 | CLOCK | 9 | VCC (VCO) |
| 2 | DATA | 13 | RF OUT |
| 3 | ENABLE | 15 | VCC (PLL) |
| 4 | OSC IN | 16 | LOCK DETECT |
| All other Pins are Grounded | | | |

