

Features

- +5 dBm Output Level at 1690 MHz
- Channel Step Size : 1000 kHz
- 2nd Harmonic : < -20 dBc
- Spurious Level : < -65 dBc
- Lock Time : < 10 ms
- 30 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 | | 1690 | |
| Output Power | dBm | 3 | 5 | 7 |
| Supply Voltage | V | 4.7 | 5.0 | 5.3 |
| Current Consumption | mA | | 30 | 40 |
| Channel Step Size | kHz | | 1000 | |
| 2 nd Harmonics | dBc | | -25 | -20 |
| Spurious Level | dBc | | | -65 |
| Lock Time | ms | | | 10 |
| Reference Frequency | MHz | | 13 | |
| Reference Input Level | dBm | | - | |
| Phase Noise (C / N) | | | | |
| @ 1 kHz | dBc/Hz | | -75 | -65 |
| @ 10 kHz | dBc/Hz | | -105 | -95 |
| @ 100 kHz | dBc/Hz | | -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. = 1090 MHz, 50 ohm system.

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

More Information

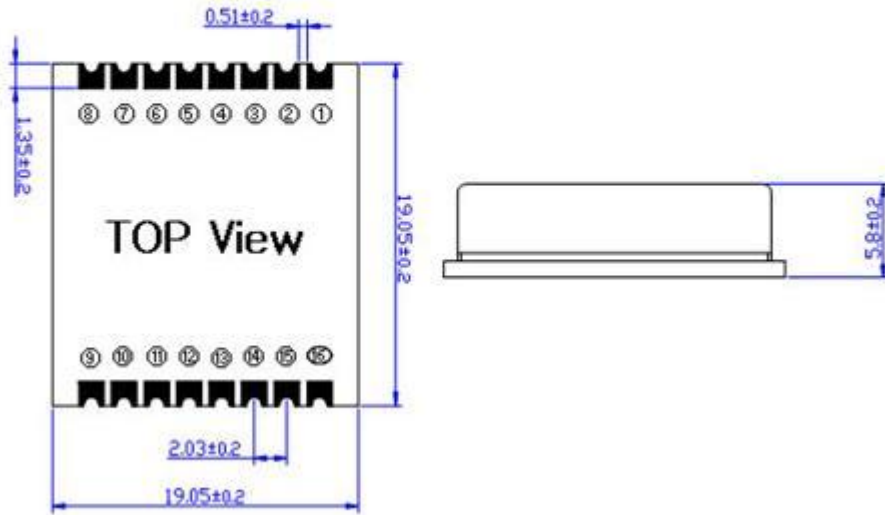
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Outline Drawing

| Type | Dimension |
|---------------------------|---------------|
| PLL IC + VCO + ROM + TCXO | 19 x 19 x 5.8 |



| Pin Out for PLL | | | |
|---|-------------|---------|-------------|
| Pin No. | Application | Pin No. | Application |
| 1 | GROUND | 9 | VCC (VCO) |
| 2 | GROUND | 13 | RF OUT |
| 3 | GROUND | 15 | VCC (PLL) |
| 4 | GROUND | 16 | LOCK DETECT |
| All other Pins are Grounded / Internal TCXO and ROM | | | |

