

Features

- 4 dBm Output Level at 832 MHz
- Channel Step Size : 200 kHz
- 2nd Harmonic : < -25 dBc
- Spurious Level : < -65 dBc
- Lock Time : < 10 ms
- Current Consumption : < 30 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 | 818 | | 848 |
| Output Power | dBm | 2 | 4 | 6 |
| Supply Voltage | V | 4.75 | 5 | 5.25 |
| Current Consumption | mA | | 25 | 30 |
| Channel Step Size | kHz | | 200 | |
| 2 nd Harmonics | dBc | | -15 | -25 |
| Spurious Level | dBc | | -70 | -65 |
| Lock Time | ms | | | 10 |
| Reference Frequency | MHz | | 10 | |
| Reference Input Level | dBm | | 0 | |
| Phase Noise (C / N) | | | | |
| @ 1 kHz | dBc/Hz | | -80 | -75 |
| @ 10 kHz | | | -103 | -98 |
| @ 100 kHz | | | -122 | -117 |
| Output Impedance | Ω | | 50 | |
| Operating Temp. Range | °C | -40 | 25 | 80 |
| 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 MHz, 50 ohm system.

More Information

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Outline Drawing



| Dimension (unit : mm) ±0.02 | | | | | | | | | | | | | | |
|-----------------------------|-----|-----|------|------|------|------|------|------|-------|-----|------|------|------|-----|
| A | B | C | D | E | F | G | H | I | J | K | L | M | N | O |
| 19.0 ±0.1 | 5.5 | 5.8 | 2.03 | 0.51 | 1.35 | 0.45 | 17.0 | 16.3 | 15.75 | 2.0 | 20.6 | 1.52 | 2.03 | 8.0 |

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