

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Broadband transmission
- Optical Transmitter
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Application Notes

- AN-107: Manual Soldering Technique
- AN-205: Measuring Phase Noise for SFS Series

Performance Specifications

| | Min | Typ | Max | Units |
|---------------------------------------|------|--------|------|--------------------|
| Frequency | 8910 | | 8910 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -83 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -20 | | dBc |
| Spurious Suppression | | -70 | | dBc |
| Power Output | -3 | 0 | 3 | dBm |
| Load Impedance | | 50 | | Ω |
| Settling Time | | 3 | | mS |
| Operating Temperature Range | -40 | | 85 | $^{\circ}\text{C}$ |
| Package Style | | SFS-L1 | | |

Power Supply Requirements

| | Min | Typ | Max | Units |
|----------------------------------|-----|-----|-----|-------|
| Supply Voltage 1: PLL (Vcc, nom) | | 3 | | Vdc |
| Supply Voltage 2: VCO (Vcc, nom) | | 5 | | Vdc |
| Supply Current 1: PLL (Icc, typ) | | 11 | | mA |
| Supply Current 2: VCO (Icc, typ) | | 90 | | mA |

Reference Oscillator Signal

| | Min | Typ | Max | Units |
|---------------------------|-----|------|-----|--------|
| Frequency | | 10 | | MHz |
| Phase Noise @1 kHz Offset | | -145 | | dBc/Hz |

Additional Notes

LFSuffix = RoHS Compliant. All specifications are subject to change without notice.

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