

Electrical Specifications

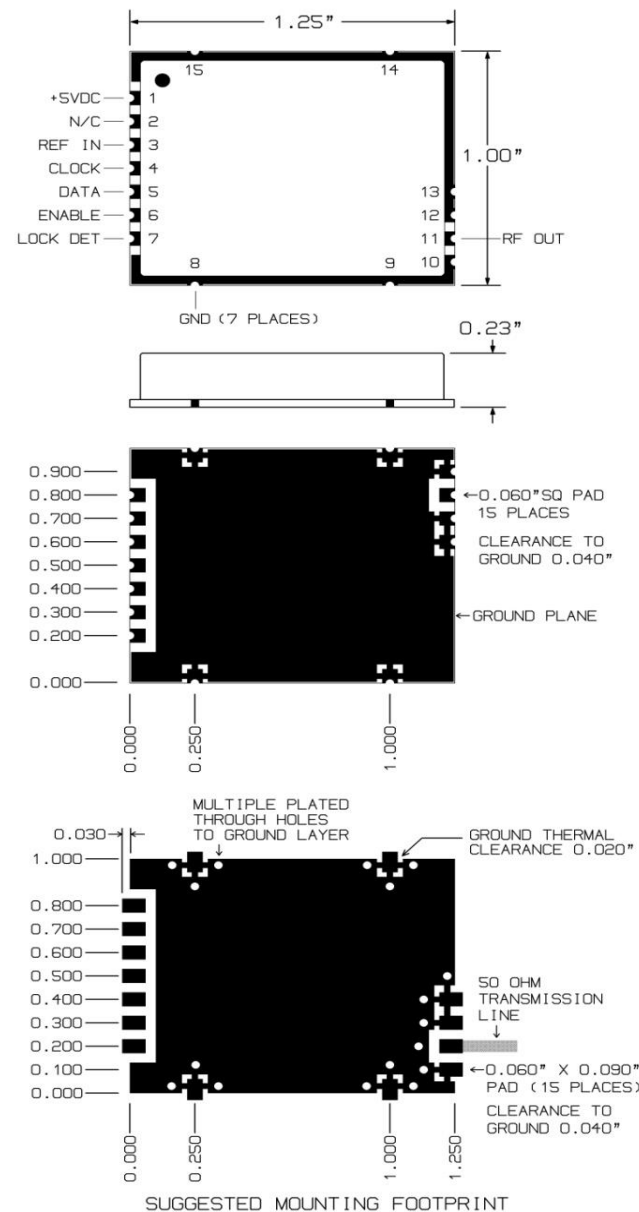
| | |
|----------------------------------|-----------------------------------|
| Frequency | 1.75 - 3.05 GHz |
| Frequency Step Size | 1 MHz |
| Frequency Stability and Accuracy | |
| External Ref. | Same as input |
| Internal Ref. | ± 5.0 PPM (Over Temp Range) |
| Aging (after 2 months) | ± 2.0 PPM max per year @ 25°C |
| Adjustability | 10 years |
| Phase noise (dBc/Hz) | Typ. |
| L(100 Hz) | -70 |
| L(1 kHz) | -74 |
| L(10 kHz) | -80 |
| L(100 kHz) | -100 |
| L(1 MHz) | -130 |
| L(10 MHz) | -150 |
| Spurious (max) | -60 dBc |
| Harmonics (typ.) | -17 dBc |
| DC Power | |
| +5.5 VDC ± 0.5 VDC | 200 mA |
| Power Out (min. @ 25°C) | +13 dBm |
| Power Variation (typ.) | ± 3 dB |
| Load VSWR (max.) | 2:1 |
| Frequency Control | SPI (3V) |
| Acquisition Time (typ.) | 0.5 ms |
| Phase-Lock Indicator (LD) | CMOS 3V |

Reference Specifications

| | |
|---------------------------|-------------------|
| Input Reference Frequency | 10 MHz |
| Input Level | 0 dBm ± 3 dBm |

Environment Specifications

| | |
|------------------------------------|-----------------------|
| Operating Temp. Range (surface) | -0°C to 60°C (note 4) |
| Storage Temp. Range | -40°C to 85°C |
| Relative Humidity (non-condensing) | 90%RH @ 40°C |
| Shock | 30G / 10 ms |
| Vibration | 4G / 20 Hz - 20 kHz |



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Product Data Sheet

Surface Mount Synthesizer

SMS-1750-3050-1M

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