

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Clock Sources
- Satellite Communications
- Test Instrumentation

Application Notes

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

| Performance Specifications | Min | Typ | Max | Units |
|---------------------------------------|----------|-----|------|--------------------|
| Frequency | 1500 | | 1500 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -98 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -25 | | dBc |
| Spurious Suppression | | -65 | | dBc |
| Power Output | 2 | 5 | 8 | dBm |
| Load Impedance | | 50 | | Ω |
| Settling Time | | 1 | | mS |
| Operating Temperature Range | -40 | | 85 | $^{\circ}\text{C}$ |
| Package Style | RFS-V12N | | | |

| 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) | | 10 | | mA |
| Supply Current 2: VCO (Icc, typ) | | 35 | | mA |

| Internal Reference Oscillator Signal | Min | Typ | Max | Units |
|--------------------------------------|-----|----------|-----|-------|
| Frequency | | 10 | | MHz |
| Frequency Stability | | ± 10 | | ppm |

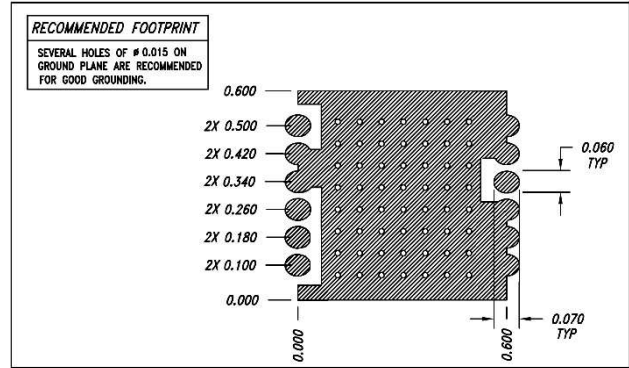
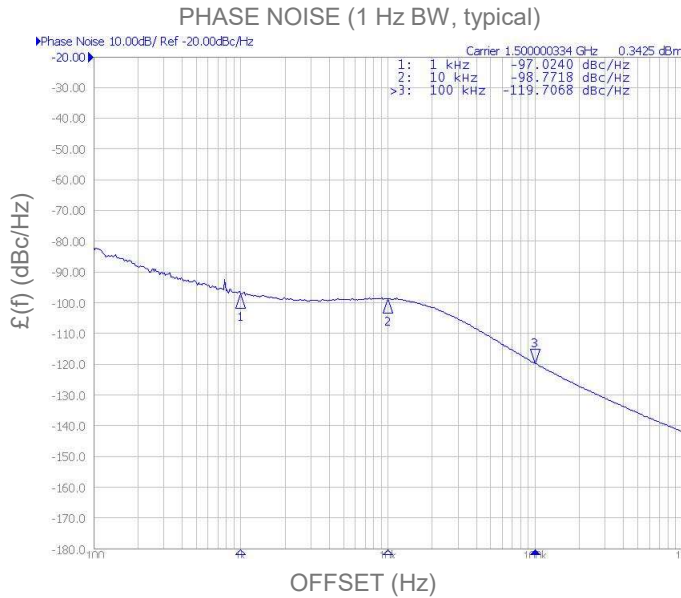
Additional Notes

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

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Phase Noise, typ.
Footprint

Physical Dimensions
