

Fixed Frequency Synthesizer Surface Mount Module

Applications

- Basestations
- CableTV Equipment
-

Application Notes

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

| Performance Specifications | Min | Typ | Max | Units |
|---------------------------------------|----------|------|------|--------------------|
| Frequency | 1600 | | 1600 | MHz |
| Phase Noise @ 10 kHz offset (1 Hz BW) | | -120 | | dBc/Hz |
| Harmonic Suppression (2nd) | | -12 | | dBc |
| Spurious Suppression | | -65 | | dBc |
| Power Output | 2 | 5 | 8 | dBm |
| Load Impedance | | 50 | | Ω |
| Settling Time | | 3 | | mS |
| Operating Temperature Range | -40 | | 85 | $^{\circ}\text{C}$ |
| Package Style | PLL-V12C | | | |

| Power Supply Requirements | Min | Typ | Max | Units |
|----------------------------------|-----|-----|-----|-------|
| Supply Voltage 1: PLL (Vcc, nom) | | 3 | | Vdc |
| Supply Voltage 2: VCO (Vcc, nom) | | 8 | | Vdc |
| Supply Current 1: PLL (Icc, typ) | | 10 | | mA |
| Supply Current 2: VCO (Icc, typ) | | 35 | | 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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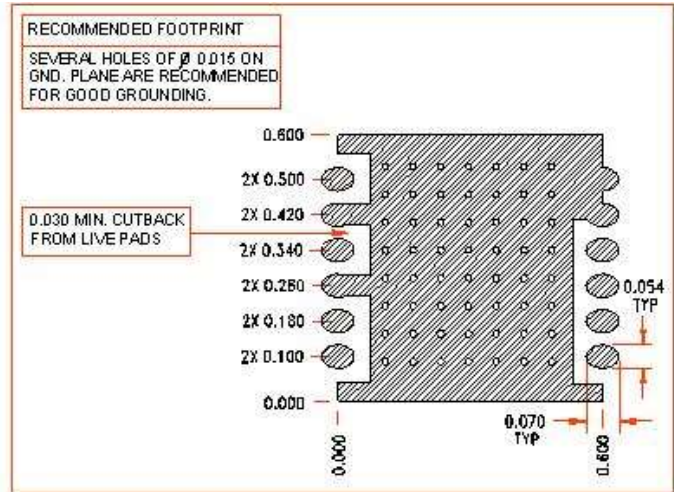
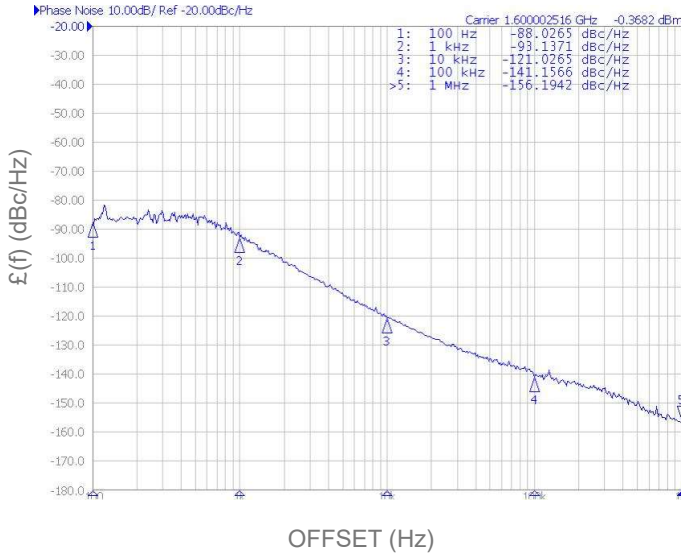
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Phase Noise, typ.

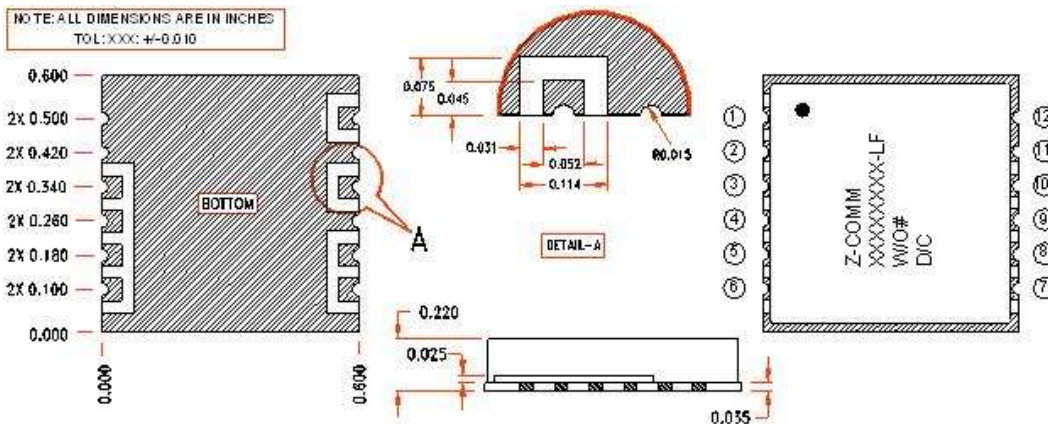
Footprint

PHASE NOISE (1 Hz BW, typical)



Physical Dimensions

NOTE: ALL DIMENSIONS ARE IN INCHES
TOL: XXX: +/-0.010



SFS PIN CONFIGURATION

| | |
|------|------------------------|
| 1 | V _{cc} (VCO) |
| 3 | RF OUT |
| 5 | MUX OUT |
| 6 | V _{cc} (CHIP) |
| 8 | NC |
| 10 | REF IN |
| REST | GROUND |

PVA PIN CONFIGURATION

| | |
|------|------------------------|
| 1 | V _{cc} (VCO) |
| 3 | RF OUT |
| 5 | MUX OUT |
| 6 | V _{cc} (CHIP) |
| 7 | CLOCK |
| 8 | DATA |
| 9 | ENABLE |
| 10 | REF IN |
| REST | GROUND |