

## Fixed Frequency Synthesizer Surface Mount Module

### Applications

- Point to point transmission
- Satellite Communications
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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                             | 6800     |     | 6800 | MHz                |
| Phase Noise @ 10 kHz offset (1 Hz BW) |          | -88 |      | dBc/Hz             |
| Harmonic Suppression (2nd)            |          | -20 |      | dBc                |
| Spurious Suppression                  |          | -65 |      | dBc                |
| Power Output                          | -3       | 0   | 3    | dBm                |
| Load Impedance                        |          | 50  |      | $\Omega$           |
| Settling Time                         |          | .3  |      | mS                 |
| Operating Temperature Range           | -30      |     | 75   | $^{\circ}\text{C}$ |
| Package Style                         | PLL-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) |     | 11  |     | mA    |
| Supply Current 2: VCO (Icc, typ) |     | 33  |     | 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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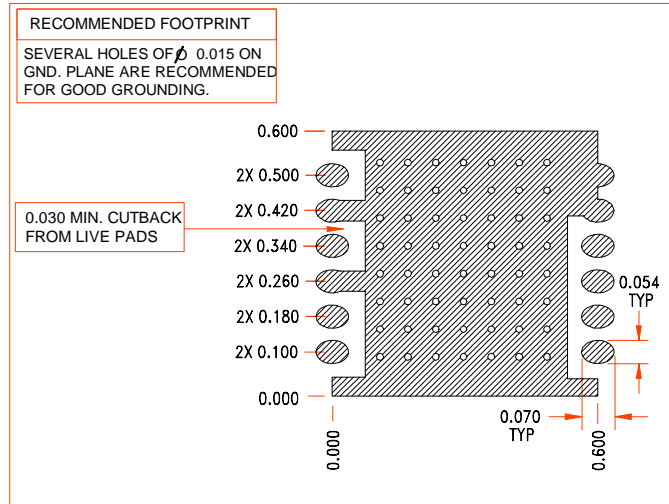
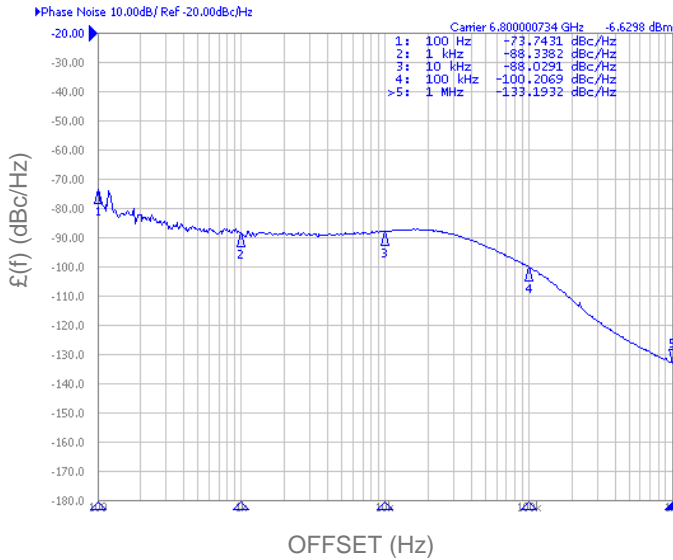
14118 Stowe Drive, Suite B | Poway, CA 92064 | TEL: (858) 621-2700 | FAX: (858) 486-1927

URL: [www.zcomm.com](http://www.zcomm.com) | EMAIL: [applications@zcomm.com](mailto:applications@zcomm.com)

**Phase Noise, typ.**

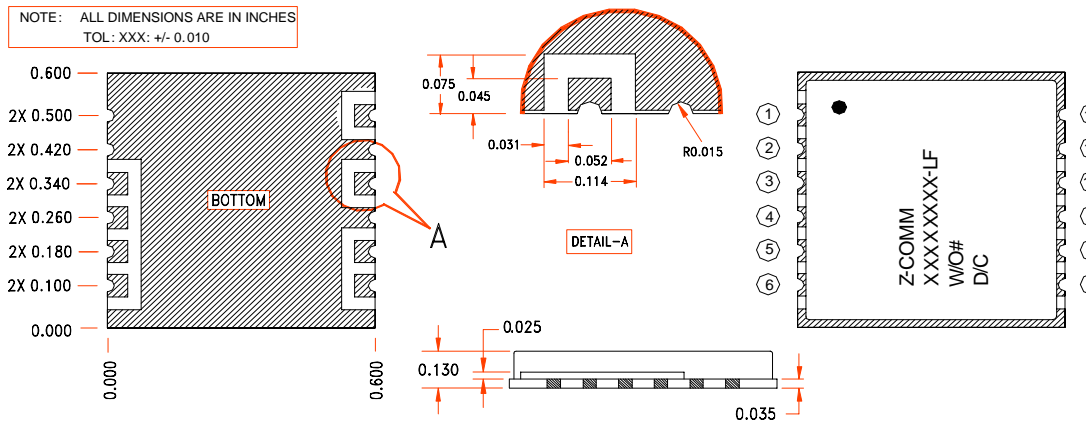
**Footprint**

PHASE NOISE (1 Hz BW, typical)



**Physical Dimensions**

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



| SFS PIN CONFIGURATION |           |
|-----------------------|-----------|
| 1                     | Vcc (VCO) |
| 3                     | RF OUT    |
| 5                     | MUX OUT   |
| 6                     | Vcc(CHIP) |
| 8                     | N/C       |
| 10                    | REF IN    |
| REST                  | GROUND    |

| PVA PIN CONFIGURATION |           |
|-----------------------|-----------|
| 1                     | Vcc (VCO) |
| 3                     | RF OUT    |
| 5                     | MUX OUT   |
| 6                     | Vcc(CHIP) |
| 7                     | CLOCK     |
| 8                     | DATA      |
| 9                     | ENABLE    |
| 10                    | REF IN    |
| REST                  | GROUND    |

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URL: [www.zcomm.com](http://www.zcomm.com) | EMAIL: [applications@zcomm.com](mailto:applications@zcomm.com)