

## Fixed Frequency Synthesizer Surface Mount Module

### Applications

- Satellite Communication Systems
- Fixed Wireless
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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                             | 3200     |     | 3200 | MHz      |
| Phase Noise @ 10 kHz offset (1 Hz BW) |          | -87 |      | dBc/Hz   |
| Harmonic Suppression (2nd)            |          | -10 |      | dBc      |
| Spurious Suppression                  |          | -70 |      | dBc      |
| Power Output                          | -2       | 2.5 | 7    | dBm      |
| Load Impedance                        |          | 50  |      | $\Omega$ |
| Settling Time                         |          | .3  |      | mS       |
| Operating Temperature Range           | -10      |     | 60   | °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) |     | 30  |     | mA    |

| Reference Oscillator Signal | Min | Typ  | Max | Units  |
|-----------------------------|-----|------|-----|--------|
| Frequency                   |     | 10   |     | MHz    |
| Phase Noise @1 kHz offset   |     | -145 |     | dBc/Hz |

### Additional Notes

For Reference oscillator frequency of <20MHz, ensure SR>50V/us. See Analog Devices ADF4106 application note for more details.  
Pin 7, 8, and 9 are no-connect.

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

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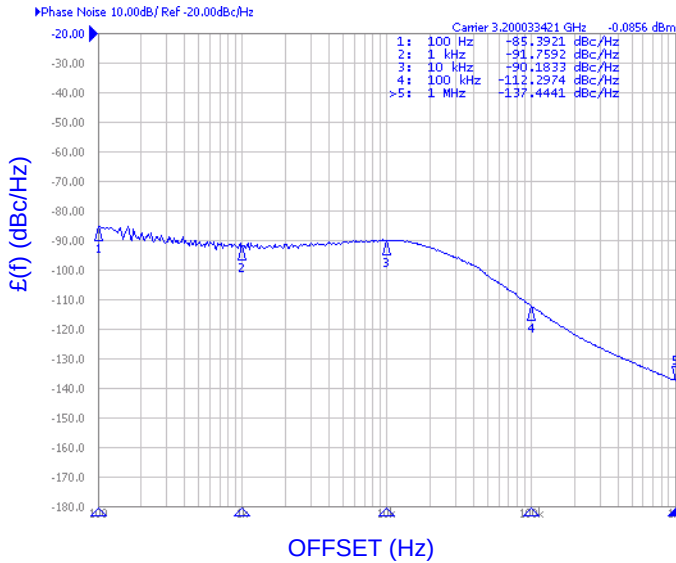
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**Phase Noise, typ.**

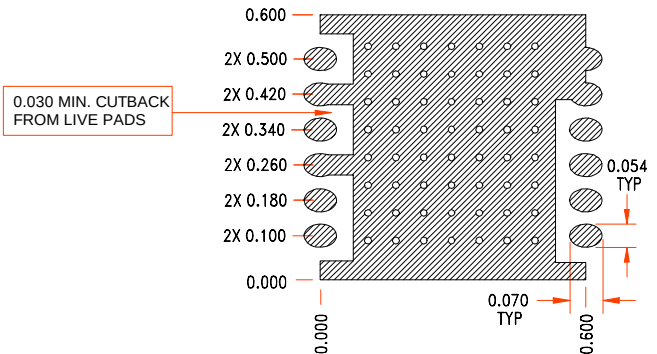
**Footprint**

**PHASE NOISE (1 Hz BW, typical)**



**RECOMMENDED FOOTPRINT**

SEVERAL HOLES OF  $\phi$  0.015 ON GND. PLANE ARE RECOMMENDED FOR GOOD GROUNDING.



**Physical Dimensions**

