

## Fixed Frequency Synthesizer Surface Mount Module

### Applications

- Radar Systems
- Satellite Communications
- Microwave Radios

### Application Notes

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

| Performance Specifications            | Min     | Typ | Max  | Units    |
|---------------------------------------|---------|-----|------|----------|
| Frequency                             | 4300    |     | 4300 | MHz      |
| Phase Noise @ 10 kHz offset (1 Hz BW) |         | -85 |      | dBc/Hz   |
| Harmonic Suppression (2nd)            |         | -45 |      | dBc      |
| Spurious Suppression                  |         | -65 |      | dBc      |
| Power Output                          | 0       | 3   | 6    | dBm      |
| Load Impedance                        |         | 50  |      | $\Omega$ |
| Settling Time                         |         | 3   |      | mS       |
| Operating Temperature Range           | -55     |     | 105  | °C       |
| Package Style                         | SFS-L1M |     |      |          |

| Power Supply Requirements        | Min | Typ | Max | Units |
|----------------------------------|-----|-----|-----|-------|
| Supply Voltage 1: PLL (Vcc, nom) |     | --- |     | Vdc   |
| Supply Voltage 2: VCO (Vcc, nom) |     | 5   |     | Vdc   |
| Supply Current 1: PLL (Icc, typ) |     | --- |     | mA    |
| Supply Current 2: VCO (Icc, typ) |     | 60  |     | mA    |

| Internal Reference Oscillator Signal | Min | Typ | Max | Units |
|--------------------------------------|-----|-----|-----|-------|
| Frequency                            |     | 20  |     | MHz   |
| Frequency Stability                  |     | ±10 |     | ppm   |

### Additional Notes

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

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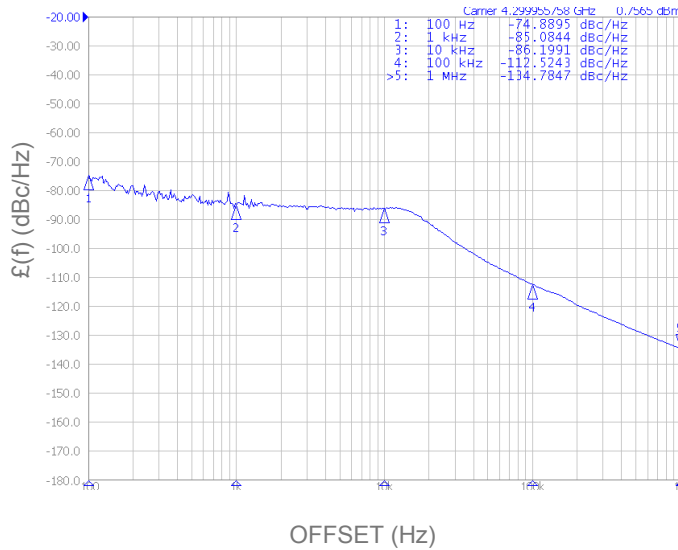
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**Phase Noise, typ.**

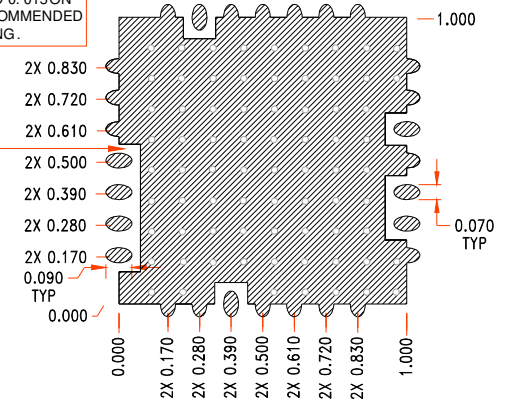
**Footprint**

PHASE NOISE (1 Hz BW, typical)



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

0.030 MIN. CUTBACK FROM LIVE PADS



**Physical Dimensions**

