# MEMS Oscillators Product Portfolio

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<th>µPower 32 kHz TCXO</th>
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<th>TCXO/VCXCO/DCTCXO</th>
<th>DCXO In-System Programmable</th>
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<tr>
<td>SiT1552 ±10, 13, 22 ppm</td>
<td>SiT1566/8 ±3, 5 ppm 2.5 ns Jitter**</td>
<td>SiT1602 1 Hz-462.5 kHz ±50 ppm</td>
<td>SiT1618 3.75-77.76 MHz 3.1-4.9 mA</td>
<td>SiT8924/5* 1-137 MHz -40 to +125°C</td>
<td>SiT8208/9* 1-220 MHz 0.5 ps Jitter*</td>
<td>SiT9202* 1-120 MHz 0.6 ps Jitter**</td>
<td>SiT1558/9* Elite Platform 1-220 MHz ±0.05 ppm 0 to +70°C</td>
<td>SiT3521/2* I2C/SPI 1-725 MHz 0.21 ps Jitter**</td>
<td>SiT9008/9* Elite Platform 1-220 MHz ±0.1 to 0.25 ppm +40 to +105°C</td>
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<tr>
<td>SiT1569* 1 Hz-462.5 kHz SOT23-5</td>
<td>SiT1579* 1 Hz-2 MHz ±50 ppm</td>
<td>SiT8021* 1-26 MHz 60-280 µA</td>
<td>SiT8920/1/2* 1-137 MHz -55 to +125°C</td>
<td>SiT9005* 17 dB Reduction 1-141 MHz</td>
<td>SiT8208/9* 1-220 MHz 0.5 ps Jitter*</td>
<td>SiT9002* 1-220 MHz 0.6 ps Jitter**</td>
<td>SiT3372/3* Elite Platform 1-725 MHz ±10 to 50 ppm 0.21 ps Jitter**</td>
<td>SiT5021/2* 1-625 MHz ±5 ppm</td>
<td>SiT1555 Elite Platform 1-40 MHz ±0.5 ppm -40 to +105°C</td>
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<tr>
<td>SiT1572 ±50 ppm 1508</td>
<td>SiT1534 1 Hz-32 kHz 2012 Option</td>
<td>SiT2001/2* 1-137 MHz SOT23-5</td>
<td>SiT8920/1/2* 1-137 MHz -55 to +125°C</td>
<td>SiT9367/7* Elite Platform 1-725 MHz 0.21 ps Jitter**</td>
<td>SiT3808/9* 1-220 MHz 0.5 ps Jitter*</td>
<td>SiT9121/2/3* Elite Platform 1-725 MHz ±10 to 50 ppm 0.21 ps Jitter**</td>
<td>SiT5156/7* Elite Platform 1-220 MHz ±0.1 to 0.25 ppm +40 to +105°C</td>
<td>SiT1569* 1 Hz-462.5 kHz ±50 ppm</td>
<td>SiT1579* 1 Hz-2 MHz ±50 ppm</td>
</tr>
<tr>
<td>SiT1630 -40 to +105°C 2012, SOT23</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>SiT1569* 1 Hz-462.5 kHz ±50 ppm</td>
</tr>
</tbody>
</table>

* Any frequency programmable within the frequency range with 6 decimals of accuracy

** Integrated rms phase jitter, see datasheet for integration range

Elite Platform families use DualMEMS™ technology for best dynamic performance
<table>
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<tr>
<th>SI Time Base Part No.</th>
<th>Output Frequency</th>
<th>Frequency Stability (ppm)</th>
<th>Supply Voltage (V)</th>
<th>Supply Current (Typical)</th>
<th>Packages (mm x mm)</th>
<th>Output Logic</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCXO (In-System Programmable)</td>
<td>Replace XTAL, XO, or TCXO</td>
<td>Drive two or more loads</td>
<td>Smallest size</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SI7532/33</td>
<td>32.768 kHz</td>
<td>75, 100, 250 over temp</td>
<td>±50</td>
<td>1.62 to 3.63</td>
<td>2.0 µA (100 kHz)</td>
<td>3225, 5032, 7050</td>
<td>LVCMOS</td>
</tr>
<tr>
<td>SI71572</td>
<td>1 MHz to 625 MHz</td>
<td>±20, ±25, ±30, ±50</td>
<td>0.6 to 2.6 µA</td>
<td>1508, 2012</td>
<td>NanoDrive, LVCMOS</td>
<td>Smallest XO</td>
<td></td>
</tr>
<tr>
<td>SI71630</td>
<td>1 MHz to 220 MHz</td>
<td>±20, ±25, ±50</td>
<td>2.5 to 3.3</td>
<td>76 to 89 mA</td>
<td>3225, 5032, 7050</td>
<td>LVPECL, LVDS, HCSL</td>
<td>&lt;1% linearity</td>
</tr>
<tr>
<td>SI71552</td>
<td>1 MHz to 725 MHz</td>
<td>±20, ±25, ±50</td>
<td>0.6 to 2.6 µA</td>
<td>5032, 7050</td>
<td>LVCMOS</td>
<td>Smallest XO</td>
<td></td>
</tr>
<tr>
<td>SI71566/68</td>
<td>1 Hz to 2.5 MHz</td>
<td>±5, ±10, ±20</td>
<td>1.5 to 3.63</td>
<td>1.0 µA</td>
<td>0.21 ps rms phase jitter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SI71576</td>
<td>1 MHz to 2.5 MHz</td>
<td>±5 all inclusive</td>
<td>1.62 to 3.63</td>
<td>0.99 µA</td>
<td>Smallest XO</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SI71602</td>
<td>1 MHz to 141 MHz</td>
<td>±50</td>
<td>2.5 to 3.3</td>
<td>76 to 89 mA</td>
<td>3225, 5032, 7050</td>
<td>LVPECL, LVDS, HCSL</td>
<td>±10, ±20, ±25, ±50</td>
</tr>
<tr>
<td>SI71593</td>
<td>1 MHz to 137 MHz</td>
<td>±20, ±25, ±50</td>
<td>1.8, 2.5 to 3.3</td>
<td>4.5 µA</td>
<td>LVCMOS</td>
<td>Best reliability</td>
<td></td>
</tr>
</tbody>
</table>

**MEMS Oscillator Product Portfolio**

- **µPower Oscillators & TCXOs**
  - Lowest power
  - Drive two or more loads
  - Smallest size
  - Lightest weight

- **Low-Power Oscillators**
  - Best reliability
  - Pin compatible QFN or SOT23 for best solder joint reliability

- **Super-TCXO**
  - ±0.1, ±0.2, ±0.25 I2C programmable

- **VCXO**
  - ±25 to ±3200 ppm pull range
  - <1% linearity
  - Best reliability
  - 0.1 ppb/g (g-sensitivity, vibration immunity)

- **Low-Jitter Oscillators**
  - Best reliability
  - 0.1 ppb/g (g-sensitivity, vibration immunity)

- **High-Temperature & Automotive Oscillators**
  - Best reliability
  - 0.1 ppb/g (g-sensitivity, vibration immunity)

- **TCXO/VCTCXO/DCTCXO**
  - ±6.25 to ±3200 ppm pull range
  - 5 ppt resolution frequency control
  - Best reliability
  - 0.1 ppb/g (g-sensitivity, vibration immunity)

- **DCXO (In-System Programmable)**
  - Digital pull for lowest noise
  - Up to ±3200 ppm pull range
  - 5 ppt pull resolution
  - <1% linearity

- **SSXO (Spread Spectrum Oscillators)**
  - ±0.125 to ±2.0% center spread
  - ±0.25% to ±4.0% down spread
  - Lowest cycle-cycle jitter