Description
- Standard 7 x 5 crystal oscillators
  Ceramic package with a seam sealed metal lid, hermetically sealed
  Stock parts are available
- Fast Make capability: CFPP-73 series programmable oscillators are the nearest equivalent fast make model
- MEMS capability: IQMS-500 series oscillators are the nearest equivalent MEMS model

Frequency Range
- Frequency 0.5 to 156.0 MHz

Supply Voltage
- Voltage 3.3V ±10%

Ageing
- Ageing ±3ppm per year max

Output Compatibility & Load
- Output Compatibility HCMOS

<table>
<thead>
<tr>
<th>Maximum Capacitive Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5MHz to 50MHz</td>
</tr>
<tr>
<td>&gt;50MHz to 80MHz</td>
</tr>
<tr>
<td>&gt;80MHz to 160MHz</td>
</tr>
</tbody>
</table>

Frequency Stabilities
- Frequency Stability ±20ppm, ±25ppm, ±50ppm, ±100ppm
  (inclusive of supply voltage and output load variations over the operating temperature range)

Operating Temperature Ranges
- 0 to 70°C
- -40 to 85°C

Output Control
- Logic ‘1’ (>70% VS) to pad 1 enables oscillator output
- Logic ‘0’ (<30% VS) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state
- No connection to pad 1 enables oscillator output
- Standby Current: 10µA max

Environmental Parameters
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

Packing Details
- Pack Style: Bulk 
  Loose in bulk pack
  Pack Size 100
- Pack Style: Reel 
  Tape and reel in accordance with EIA-481-D
  Pack Size 1,000
- Alternative packing options available

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## Oscillator Specification

**Model:** CFPS-73

### Wave Form

![Wave Form Diagram](image)

### Electrical Specification - maximum limiting values 3.3V ±10%

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Temp Range</th>
<th>Stability Inclusive</th>
<th>Current Draw</th>
<th>Rise &amp; Fall (10 to 90%)</th>
<th>Duty Cycle %</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 to 19.999999MHz</td>
<td>0 to 70°C</td>
<td>±20ppm ±100ppm</td>
<td>7.0mA</td>
<td>10ns</td>
<td>45/55</td>
</tr>
<tr>
<td></td>
<td>-40 to 85°C</td>
<td>±25ppm ±100ppm</td>
<td>7.0mA</td>
<td>10ns</td>
<td>45/55</td>
</tr>
<tr>
<td>20.0 to 31.999999MHz</td>
<td>0 to 70°C</td>
<td>±20ppm ±100ppm</td>
<td>12.0mA</td>
<td>10ns</td>
<td>45/55</td>
</tr>
<tr>
<td></td>
<td>-40 to 85°C</td>
<td>±25ppm ±100ppm</td>
<td>12.0mA</td>
<td>10ns</td>
<td>45/55</td>
</tr>
<tr>
<td>32.0 to 49.999999MHz</td>
<td>0 to 70°C</td>
<td>±20ppm ±100ppm</td>
<td>20.0mA</td>
<td>10ns</td>
<td>45/55</td>
</tr>
<tr>
<td></td>
<td>-40 to 85°C</td>
<td>±25ppm ±100ppm</td>
<td>20.0mA</td>
<td>10ns</td>
<td>45/55</td>
</tr>
<tr>
<td>50.0 to 79.999999MHz</td>
<td>0 to 70°C</td>
<td>±20ppm ±100ppm</td>
<td>25.0mA</td>
<td>8ns</td>
<td>45/55</td>
</tr>
<tr>
<td></td>
<td>-40 to 85°C</td>
<td>±25ppm ±100ppm</td>
<td>25.0mA</td>
<td>8ns</td>
<td>45/55</td>
</tr>
<tr>
<td>80.0 to 99.999999MHz</td>
<td>0 to 70°C</td>
<td>±20ppm ±100ppm</td>
<td>30.0mA</td>
<td>5ns</td>
<td>45/55</td>
</tr>
<tr>
<td></td>
<td>-40 to 85°C</td>
<td>±25ppm ±100ppm</td>
<td>30.0mA</td>
<td>5ns</td>
<td>45/55</td>
</tr>
<tr>
<td>100.0 to 156.0MHz</td>
<td>0 to 70°C</td>
<td>±20ppm ±100ppm</td>
<td>40.0mA</td>
<td>4ns</td>
<td>45/55</td>
</tr>
<tr>
<td></td>
<td>-40 to 85°C</td>
<td>±25ppm ±100ppm</td>
<td>40.0mA</td>
<td>4ns</td>
<td>45/55</td>
</tr>
</tbody>
</table>

This document was correct at the time of printing; please contact your local sales office for the latest version.