Description
- Standard 1.6 x 1.2mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed

Frequency Parameters
- Frequency: 1.0MHz to 80.0MHz
- Frequency Stability: ±30.00ppm to ±100.00ppm
- Ageing: ±5ppm

Electrical Parameters
- Supply Voltage: 1.8V ±10%
- Standby Current: 10μA max

Operating Temperature Ranges
- -20 to 70°C
- -40 to 85°C

Output Details
- Output Compatibility: CMOS
- Drive Capability: 15pF max

Output Control
- Logic ‘1’ (≥70%VS) to pad 1 enables oscillator output
- Logic ‘0’ (≤30%VS) to pad 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
- No connection to pad 1 enables oscillator output

Environmental Parameters
- Shock: IEC 60068-2-27: 1000G, 1ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: IEC 60068-2-6: 1.5mm amplitude, 10Hz-55Hz, 1min in 3 mutually perpendicular planes, duration 2hrs each plane (total 6hrs)
- Storage Temperature Range: -40 to 85°C

Ordering Information
- Frequency*
- Model*
- Output Frequency Stability*
- Operating Temperature Range*
- Supply Voltage (*minimum required)

Example
- 10.0MHz IQXO-642 CMOS ±50ppm –20 to 70°C 1.8V

Compliance
- RoHS Status (2011/65/EU): Compliant
- REACh Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Test Circuit

Wave Form
**Packaging Details**

- **Cut tape**
  - Pack Size: 1
- **Bulk**
  - Loose in bulk pack
  - Pack Size: 100
- **Reel**
  - Tape & reel in accordance with EIA-481-D
  - Pack Size: 3,000

**Electrical Specification - maximum limiting values 1.8V ±10%**

<table>
<thead>
<tr>
<th>Frequency Min</th>
<th>Frequency Max</th>
<th>Temperature Range</th>
<th>Stability (Min)</th>
<th>Current Draw</th>
<th>Rise and Fall Time</th>
<th>Duty Cycle</th>
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<td>°C ppm mA ns %</td>
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<td>-20 to 70</td>
<td>±30.0</td>
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<td>5</td>
<td>45/55%</td>
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