

**Customer Part:**

**Description**

- Standard 2.5 x 2.0 oscillator in a ceramic package with a hermetically sealed metal lid.
- Model IQXO-794
- Model Issue number 2

**Frequency Parameters**

- Frequency 24.0MHz
- Frequency Stability  $\pm 50.00\text{ppm}$
- Operating Temperature Range  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing  $\pm 3\text{ppm}$  max per year

**Electrical Parameters**

- Supply Voltage  $1.8\text{V} \pm 5\%$
- Current Draw  $10.000\text{mA}$

**Output Details**

- Output Compatibility HCMOS
- Drive Capability  $15\text{pF}$
- Rise and Fall Time  $10.0\text{ns}$  max
- Duty Cycle  $40/60\%$
- Output Voltage High: 90% of  $V_S$  min  
Output Voltage Low: 10% of  $V_S$  max
- Start Up Time:  $10\text{ms}$  max  
 $0.9\text{ms}$  typ to 90% of final amplitude (under ideal conditions @  $25^\circ\text{C}$ )

**Output Control**

- Standby Function (pin1):  
No Connection = Output Enabled  
>70%  $V_S$  = Output Enabled  
<30%  $V_S$  = Output Disabled  
(when disabled output goes to high impedance state)
- Standby Current:  $10\mu\text{A}$  max,  $0.5\mu\text{A}$  typ @  $25^\circ\text{C}$

**Noise Parameters**

- Jitter (Period pk-pk):  $\pm 80\text{ps}$  typ
- Jitter (Phase 12kHz to 20MHz):  $1\text{ps}$  max
- Jitter (Period One Sigma):  $\pm 10\text{ps}$  typ

**Environmental Parameters**

- Shock: MIL-STD-202, Method 213. Or comparable.
- Vibration: MIL-STD-883, Method 2007. Or comparable.
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$

**Compliance**

- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

**Packaging Details**

- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 100
- *Alternative packing option available*


**Outline (mm)**

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