



## Description

- Standard 2.5 x 2.0 oscillator in a ceramic package with a hermetically sealed metal lid.
- Model: IQXO-794
- Model Issue number: 1

## Frequency Parameters

- Frequency: 12.0MHz
- 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

## 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)
- Start Up Time:  $10\text{ms}$  max

## 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

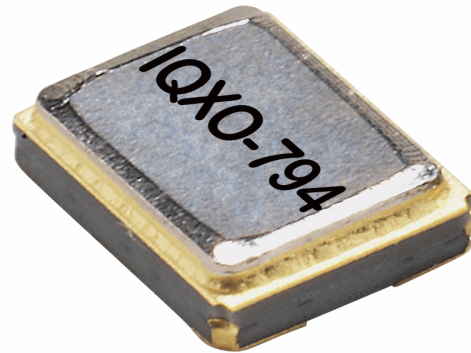
- Shock: MIL-STD-202, Method 213. Or comparable.
- Vibration: MIL-STD-883, Method 2007. Or comparable.
- Storage Temperature Range:  $-55$  to  $125^\circ\text{C}$

## Compliance

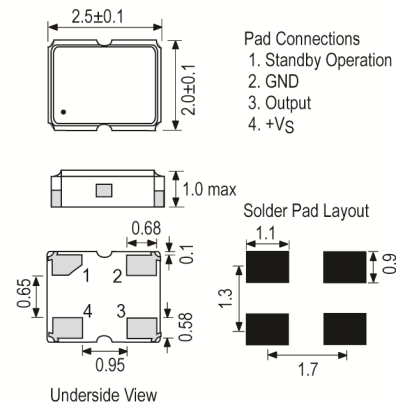
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

## Packaging Details

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



## Outline (mm)



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