

### Description

- 0.9V low voltage oscillator in a hermetically sealed 3.2 x 2.5mm surface mount ceramic package.
- Model IQXO-691 3225-09
- Model Issue number 1

### Frequency Parameters

- Frequency 26.0MHz
- Frequency Stability  $\pm 50.00$ ppm
- Operating Temperature Range -40.00 to 85.00°C
- Ageing  $\pm 3$ ppm max in 1st year @ 25°C

### Electrical Parameters

- Supply Voltage 0.9V  $\pm 5\%$
- Current Draw 10.000mA

### Output Details

- Output Compatibility CMOS
- Drive Capability 15pF
- Rise and Fall Time 5.0ns max
- Duty Cycle 45/55%
- Output Voltage Levels:  
Output Low (VoL): 10%Vs max  
Output High (VoH): 90%Vs min
- Start Up Time: 10ms max

### Output Control

- Output Enable:  
Logic '1' ( $\geq 70\%$  Vs) to pad 1 enables oscillator output.  
Logic '0' ( $\leq 30\%$  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 (internal pull-up resistor).
- Stand-by Current: 100 $\mu$ A max

### Noise Parameters

- RMS Phase Jitter (12kHz to 20MHz): 1ps max

### Environmental Parameters

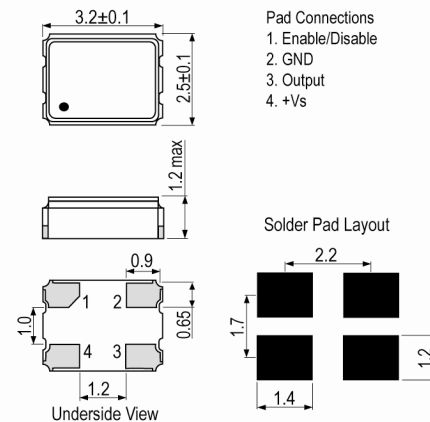
- Storage Temperature Range: -55 to 125°C
- Mechanical Shock: MIL-STD-883, Method 2002, Condition B.
- Vibration: MIL-STD-883, Method 2007, Condition A.
- Moisture Resistance: MIL-STD-883, Method 1004.
- Thermal Cycling: MIL-STD-883, Method 1010, Condition B.
- Solderability: MIL-STD-883, Method 2003.
- Resistance to Soldering Heat: MIL-STD-202, Method 210, Condition K.
- Fine Leak Test: MIL-STD-883, Method 1014, Condition A.
- Gross Leak Test: MIL-STD-883, Method 1014, Condition C.

### Manufacturing Details

- Maximum Process Temperature: 260°C (10secs max)
- Note: Please connect a bypass capacitor of 0.1 $\mu$ F between +Vs and circuit ground.



### Outline (mm)



### Sales Office Contact Details:

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**Compliance**

- RoHS Status (2011/65/EU)      Compliant
- REACH Status                      Compliant
- MSL Rating (JDEC-STD-033):    1

**Packaging Details**

- Pack Style: Cutt      Cut tape  
Pack Size: 100
- *Alternative packing option available*

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