


Description

- A standard 5.0V crystal oscillator in an 8-pin DIL hermetically sealed package with a standby function
- Model IQXO-23
- Model Issue number 20

Frequency Parameters

- Frequency 40.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 5\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage $5.0\text{V} \pm 0.25\text{V}$
- Current Draw 40.00mA

Output Details

- Output Compatibility HCMOS/TTL
- Drive Capability 50pF max or 10TTL
- Rise and Fall Time 8.0ns max
- Duty Cycle 45/55%

Output Control

- Standby Operation:
 No connection or Logic '1' to pin 1 enables oscillator output
 Logic '0' to pin 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
 Maximum 'pull-down' resistance required to disable output = $20\text{k}\Omega$
 Standby Current: $50\mu\text{A}$ typical

Environmental Parameters

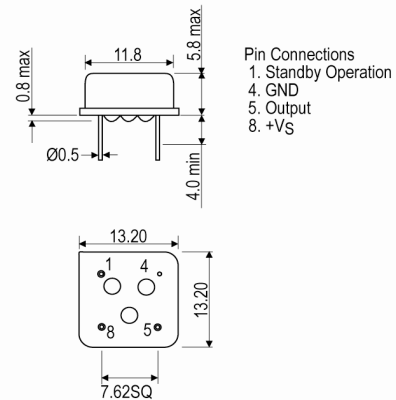
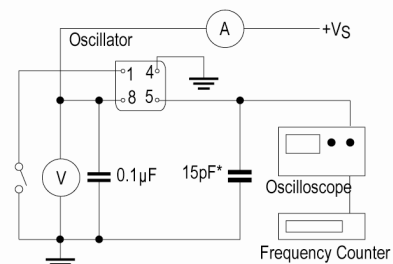
- Storage Temperature Range: -55 to 125°C
- Terminal Strength: 0.91kg max force perpendicular to top and bottom
- Hermetic Seal: Not to exceed 1×10^{-8} mBar litres of Helium leakage
- Solderability: MIL-STD-202E, Method 208C
- Vibration: 0.76mm displacement, 10Hz - 55Hz , 1min in 3 mutually perpendicular planes, duration 2hrs each plane
- Rapid Change of Temperature over Operating Temperature Range: 10 cycles
- Shock: 981m/s^2 , 6ms, 3 times in each of 3 mutually perpendicular planes

Compliance

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

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 40
- *Alternative packing option available*

Outline (mm)

Test Circuit


*Inclusive of jigging and equipment capacitance

Note: Pin 1 = No connection on non standby option models

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