



Description

- A 5.0V supply, 8-pin DIL crystal oscillator in a hermetically sealed metal package designed to meet tough environmental specifications
- Model IQXO-35
- Model Issue number 10

Frequency Parameters

- Frequency 655.360kHz
- Frequency Tolerance INCLUSIVE
- Frequency Stability $\pm 100.00\text{ppm}$
- 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 20.00mA

Output Details

- Output Compatibility HCMOS/TTL
- Drive Capability 50pF max or 10TTL
- Rise and Fall Time 15.0ns max
- Duty Cycle $45/55\%$

Environmental Parameters

- Acceleration: 490m/s^2 for 1min in the 'Y1' plane
- Bump: 4000 bumps at 391m/s^2 in each of 3 mutually perpendicular planes
- Shock: 981m/s^2 , 6ms, 3 times in each of 3 mutually perpendicular planes
- Vibration: 10Hz - 60Hz , 0.75mm amplitude, 60Hz - 2000Hz , 98.1m/s^2 , 30mins in each of 3 mutually perpendicular planes
- Humidity:
Steady State: In accordance with Test Ca of IEC 60068-2-3, for 56 days at 40°C at a relative humidity of 93%
Cyclic: In accordance with Test Db (variant 1) of IEC 60068-2-30, at severity b, 55°C for 6 cycles
- Solderability: In accordance with Test Ta of IEC 60068
- Rapid Change of Temperature over Operating Temperature Range:
10 cycles
- Hermetic Seal: Not to exceed 1×10^{-8} mBar litres of Helium leakage
- Storage Temperature Range: -55 to 125°C

Compliance

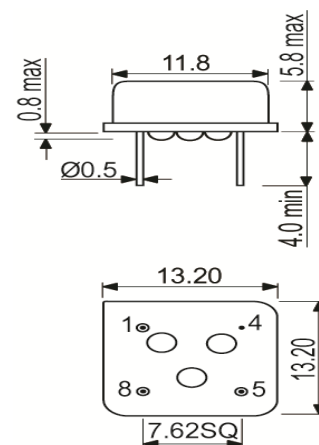
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 1
- Alternative packing option available



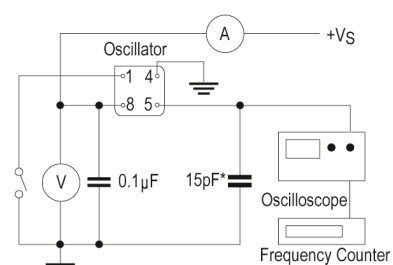
Outline (mm)



Pin Connection

1. N/C
4. GND
5. Output
8. +Vs

Test Circuit



*Inclusive of jigging and equipment capacitance

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

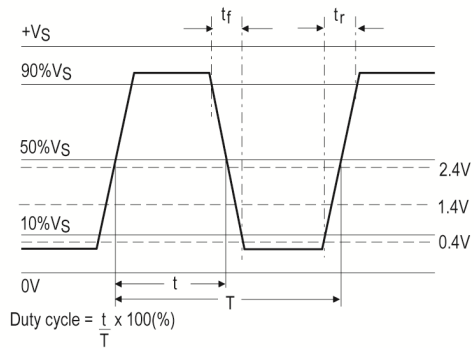
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