

Customer Part:

Description

- Standard 7.0 x 5.0mm crystal oscillator in a ceramic package with a seam sealed metal lid, hermetically sealed.
- Model CFPS-72
- Model Issue number 16

Frequency Parameters

- Frequency 24.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 5\text{ppm}$ per year max

Electrical Parameters

- Supply Voltage $5.0\text{V} \pm 10\%$
- Current Draw 35.000mA
- Note: parameters are referenced to 15pF load

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF typ, 30pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 40/60
- Start up time: 10ms max, 1.1ms typ to 90% of final amplitude (under ideal conditions @ 25°C).

Output Control

- Standby Operation:
Logic '1' ($>70\%$ Vs) to pad 1 enables oscillator output.
Logic '0' ($<30\%$ Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state.
No connection to pad 1 enables oscillator output.
Standby Current: $10\mu\text{A}$ max, $2.3\mu\text{A}$ typ @ 25°C .

Environmental Parameters

- Shock: Half Sine shock pulse with peak acceleration 500g ; Pulse duration: 0.3ms
- Vibration: MIL-STD-202 Method 204. 5g for 20 minutes, 12 cycles in each of the 3 orientations, 10 - 2000 Hz. As per Table 11 of AEC-Q200.
- Storage Temperature Range: -55 to 125°C

Manufacturing Details

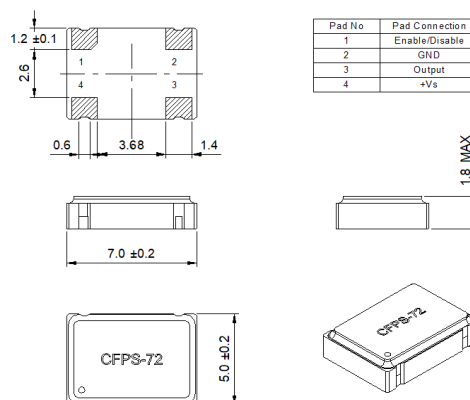
- RoHS Terminations NiAu
- RoHS Reflow Temp 260°C 10s max

Compliance

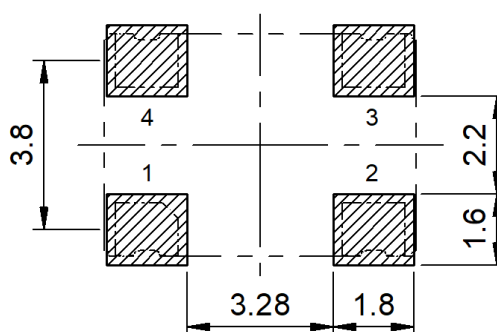
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)



Recommended Solder Pad Layout



Sales Office Contact Details:

UK: +44 (0)1460 270200

Email: info@iqdfrequencyproducts.com

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Customer Part:

Packaging Details

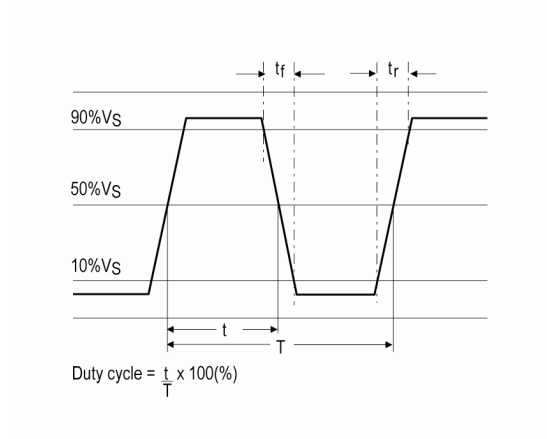
- Tape & reel in accordance with EIA-481
Quantities below the standard reel size to be supplied on cut tape.

Standard Pack Quantity: 1,000

Test Circuit



Waveform



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