

Customer Part:

Description

- 5 x 3.2mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-9
- Model Issue number 8
- Note: Please be aware that devices supplied against this model may show slight cosmetic differences depending upon the frequency and specification, however, all electrical details remain as per the model specification.

Frequency Parameters

- Frequency 12.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 0.3\text{V}$
- Current Draw 20.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 40/60%
- Start up time: 10ms max, 0.8ms typ to 90% of final amplitude (under ideal conditions @ 25°C)

Output Control

- Enable/Disable Operation:
Logic '1' ($>70\%$ VS) to pad 1 enables oscillator output
Logic '0' ($<30\%$ 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
Standby Current: 10 μA max, 0.9 μA typ @ 25°C

Environmental Parameters

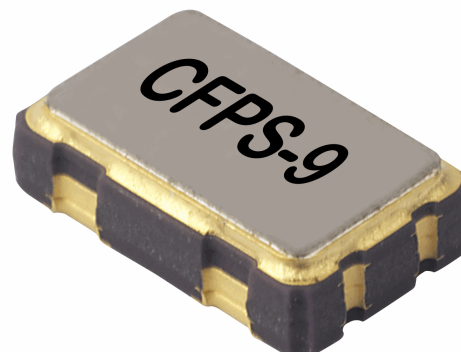
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Manufacturing Details

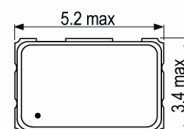
- RoHS Terminations NiAu
- RoHS Reflow Temp 260°C 10s max

Compliance

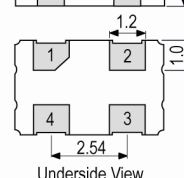
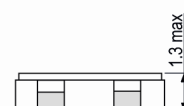
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



Outline (mm)

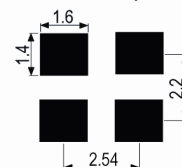


Pad Connections
1. Enable/Disable
2. GND
3. Output
4. +Vs

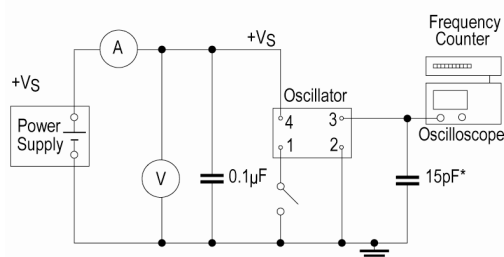


Underside View

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

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USA: +1.760 668 8935

Email: info@iqdfrequencyproducts.com

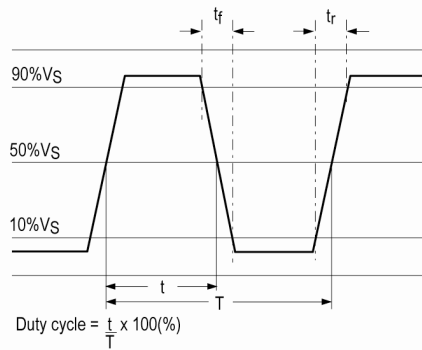
Web: www.iqdfrequencyproducts.com

Customer Part:

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000
- *Alternative packing option available*

Wave Form



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