

Customer Part:

Description

- Surface mount 3.2 x 2.5mm crystal oscillator in a hermetically sealed ceramic package with a seam sealed metal lid.
- Model CFPS-39
- Model Issue number 6

Frequency Parameters

- Frequency 100.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 30.000mA

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle $40/60\%$
- Output Low Vol: 10% Vs max
Output High Voh: 90% Vs min
- Start-Up Time: 10ms max.
 0.7ms 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; when disabled the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output
Standby Current: $10\mu\text{A}$ max

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

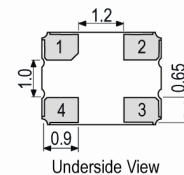
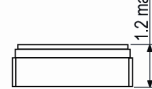
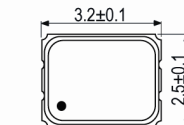
- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC max for 10s max

Compliance

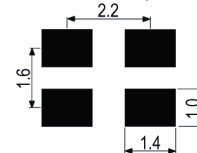
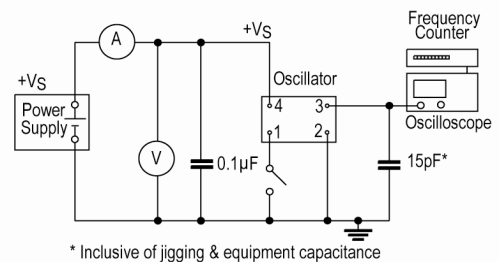
- RoHS Status (2015/863/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: $1,000$


Outline (mm)


- Pad Connections
1. Standby Operation
 2. GND
 3. Output
 4. +Vs

Solder Pad Layout

Test Circuit

Sales Office Contact Details:

UK: +44 (0)1460 270200

France: 0800 901 383

 Email: info@iqdfrequencyproducts.com

Germany: 0800 1808 443

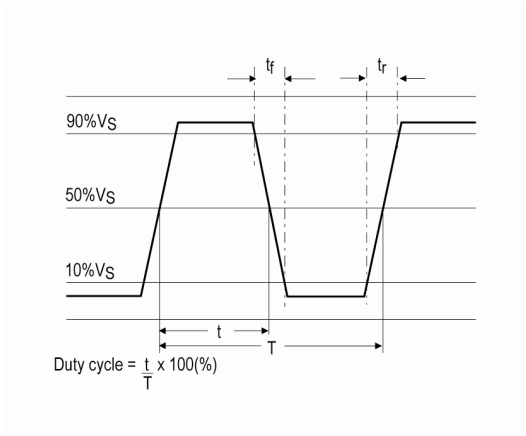
USA: +1.760.318.2824

 Web: www.iqdfrequencyproducts.com

Customer Part:

- Alternative packing option available

Wave Form



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