

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 **50.0MHz**
- Frequency Stability **±50.00ppm**
- Operating Temperature Range **-40.00 to 85.00°C**
- Ageing **±3ppm max per year @ 25°C**

Electrical Parameters

- Supply Voltage **3.3V ±0.3V**
- Current Draw **30.000mA**

Output Details

- Output Compatibility **CMOS**
- Drive Capability **15pF max**
- Rise and Fall Time **8.0ns 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: 10µA max, 0.9µA 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

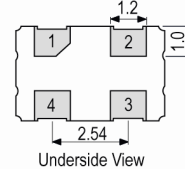
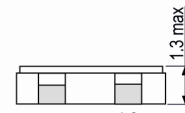
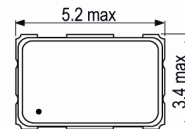
- RoHS Terminations **NiAu**
- RoHS Reflow Temp **260°C 10s max**

Compliance

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

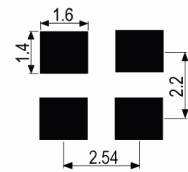


Outline (mm)

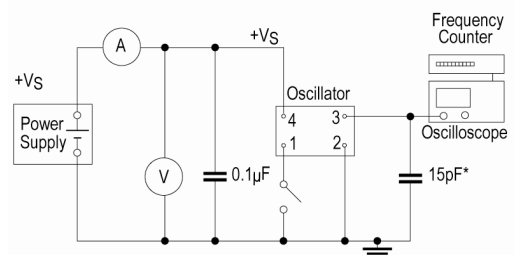


Pad Connections
1. Enable/Disable
2. GND
3. Output
4. +Vs

Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

Sales Office Contact Details:

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Email: info@iqdfrequencyproducts.com

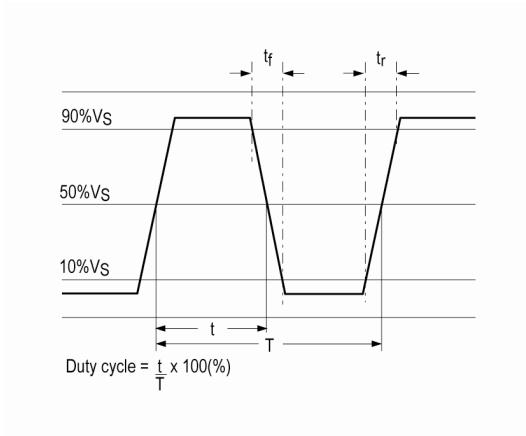
Web: www.iqdfrequencyproducts.com

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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