

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 20.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -10.00 to 70.00°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: $10\mu\text{A}$ max, $0.9\mu\text{A}$ typ @ 25°C

Environmental Parameters

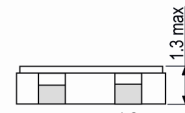
- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G , 0.5ms , $1/2$ sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz - 2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Manufacturing Details

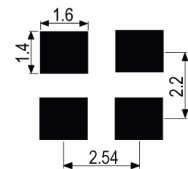
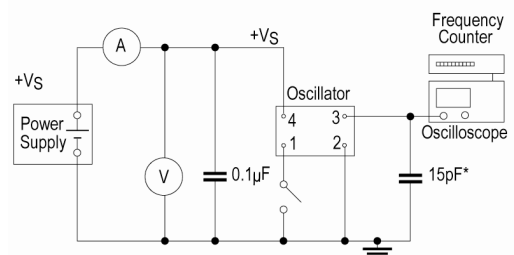
- RoHS Terminations NiAu
- RoHS Reflow Temp 260°C 10s max

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

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Customer Part:

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- *Alternative packing option available*

Wave Form



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