

Customer Part:

Description

- Low supply current crystal oscillators
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-69
- Model Issue number 5

Frequency Parameters

- Frequency 4.0MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ max per year

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 5\%$
- Current Draw 4.500mA
- Standby Current: $1\mu\text{A}$ max

Output Details

- Output Compatibility CMOS
- Drive Capability 15pF max
- Rise and Fall Time 12.0ns max
- Duty Cycle 45/55%

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 the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output

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

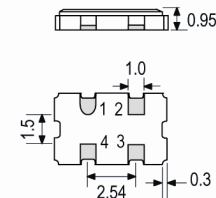
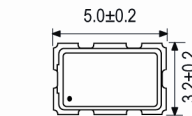
- RoHS Terminations NiAu
- RoHS Reflow Temp 260degC 10s

Compliance

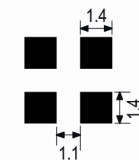
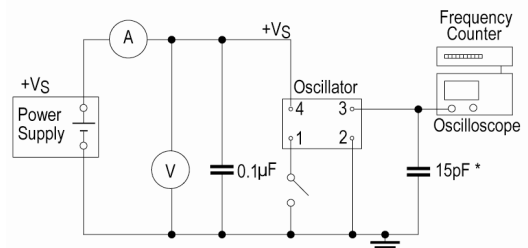
- RoHS Status (2015/863/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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


Outline (mm)

Pad Connections

1. Standby Operation
2. GND
3. Output
4. +VS

Solder Pad Layout

Test Circuit


* Inclusive of jigging and equipment capacitance

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Customer Part:

Wave Form



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