



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 20.0MHz
- Frequency Tolerance @ 25°C INCLUSIVE
- 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 3.3V
- Supply Voltage Tolerance $\pm 5\%$
- Current Draw 5mA max
- Standby Current: 1 μA max

Output Details

- Output Compatibility CMOS
- Output Load 15pF max
- Rise and Fall time 12ns 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

- 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)
- Storage Temperature Range: -55 to 125°C

Compliance

- RoHS Status Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging

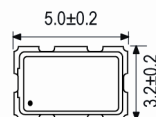
- Pack Type: Bulk Loose in bulk pack
- Pack Size 100

- Alternative packing option available

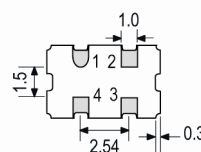
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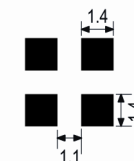
Outline (mm)



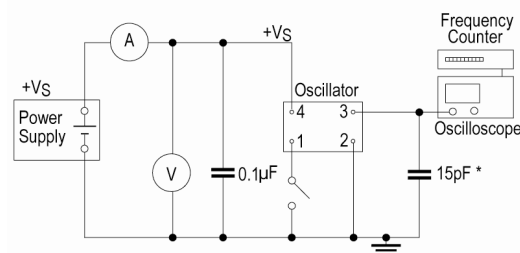
- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS



Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

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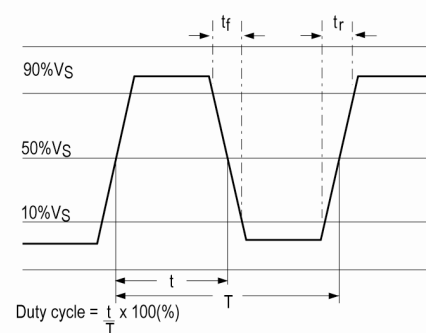
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Wave Form



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