



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: 12.0MHz
- 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: 260°C 10s

Compliance

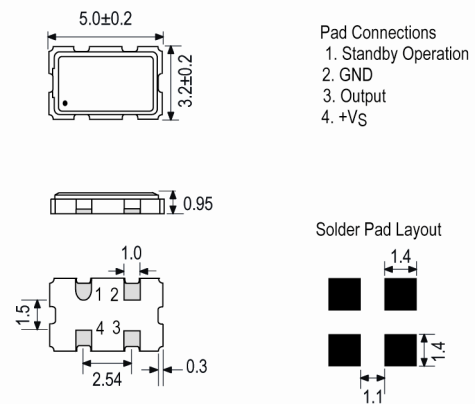
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

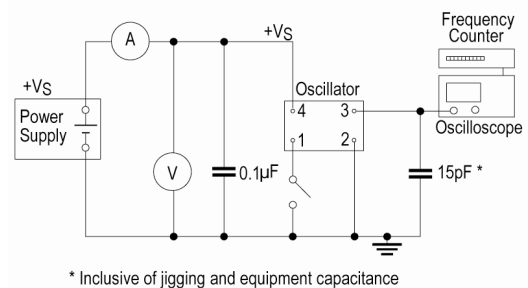
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: $1,000$
- Alternative packing option available



Outline (mm)



Test Circuit



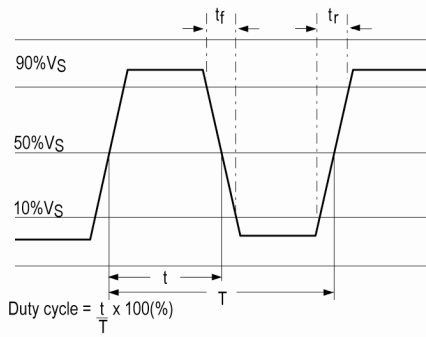
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Wave Form



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