

## 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: 50.0MHz
- Frequency Stability:  $\pm 50.00\text{ppm}$
- Operating Temperature Range:  $-40.00$  to  $85.00^\circ\text{C}$
- Ageing:  $\pm 3\text{ppm}$  max per year

### Electrical Parameters

- Supply Voltage:  $3.3\text{V} \pm 5\%$
- Current Draw:  $6.000\text{mA}$
- Standby Current:  $1\mu\text{A}$  max

### Output Details

- Output Compatibility: CMOS
- Rise and Fall Time:  $12.0\text{ns}$  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  $125^\circ\text{C}$
- 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:  $260\text{degC}$  10s

### Compliance

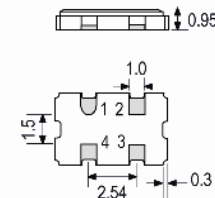
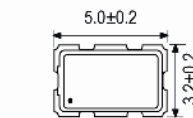
- RoHS Status (2015/863/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

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



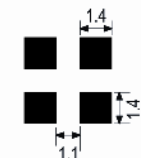
### Outline (mm)



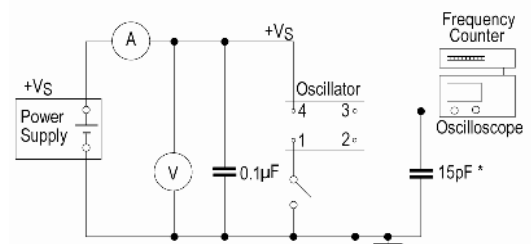
#### Pad Connections

- Standby Operation
- GND
- Output
- +VS

#### Solder Pad Layout



### Test Circuit



\* Inclusive of jigging and equipment capacitance

### Sales Office Contact Details:

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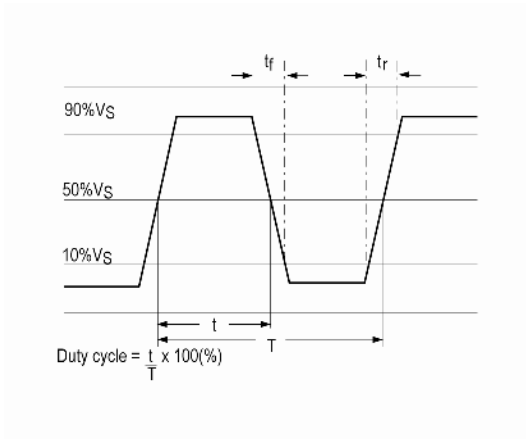
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Customer Part:

Wave Form



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