



Description

- Standard 7 x 5mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model: CFPS-72
- Model Issue number: 12

Frequency Parameters

- Frequency: 4.0MHz
- Frequency Tolerance @ 25°C: INCLUSIVE
- Frequency Stability: $\pm 50.00\text{ppm}$
- Operating Temperature Range: 0.00 to 70.00°C
- Ageing: $\pm 3\text{ppm}$ per year max

Electrical Parameters

- Supply Voltage: 5.0V
- Supply Voltage Tolerance: $\pm 10\%$
- Current Draw: 20mA max

Output Details

- Output Compatibility: HCMOS/TTL
- Output Load: 50pF max
- Rise and Fall time: 10ns 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; the oscillator output goes to the high impedance state
No connection to pad 1 enables oscillator output
Standby Current: 10 μ A max

Environmental Parameters

- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

Compliance

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

Packaging

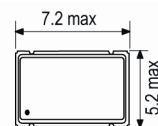
- Pack Type: R250
- Pack Size: 250

- Alternative packing option available

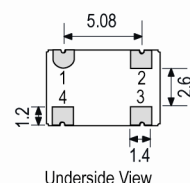
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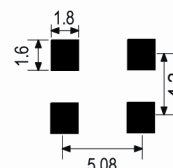
Outline (mm)



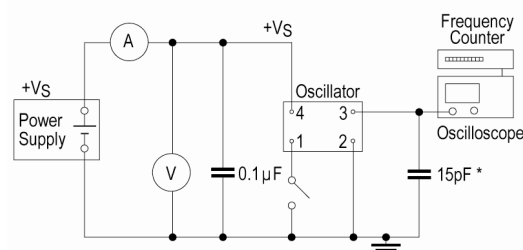
- Pad Connections
- Standby Operation
 - GND
 - Output
 - +VS



Solder Pad Layout



Test Circuit



* Inclusive of jigging and equipment capacitance

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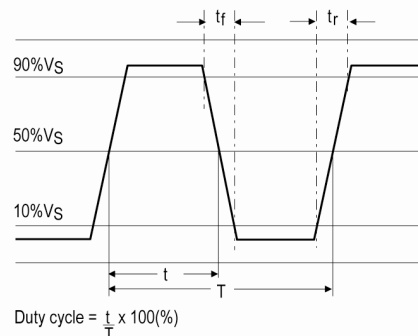
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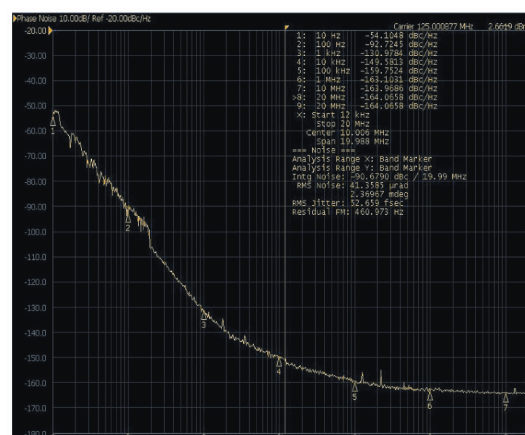
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Wave Form



Phase Noise / Jitter



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