


Description

- Standard 7 x 5mm crystal oscillator
Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPS-73
- Model Issue number 12

Frequency Parameters

- Frequency 48.0MHz
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -40.00 to 85.00°C
- Ageing $\pm 3\text{ppm}$ per year max

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 10\%$
- Current Draw 20.00mA

Output Details

- Output Compatibility HCMOS
- Drive Capability 50pF max
- Rise and Fall Time 10.0ns max
- Duty Cycle 45/55

Output Control

- 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: $10\mu\text{A}$ max

Noise Parameters

- Phase Noise @125MHz (typical):
 - 10Hz -54dBc
 - 100Hz -92dBc
 - 1kHz -130dBc
 - 10kHz -149dBc
 - 100kHz -159dBc
 - 1MHz -163dBc
- RMS Phase Jitter @125MHz: 52fs typical

Environmental Parameters

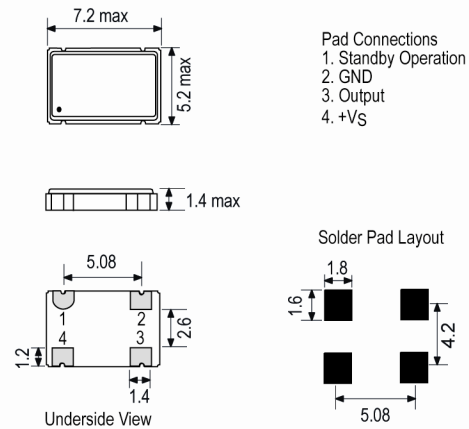
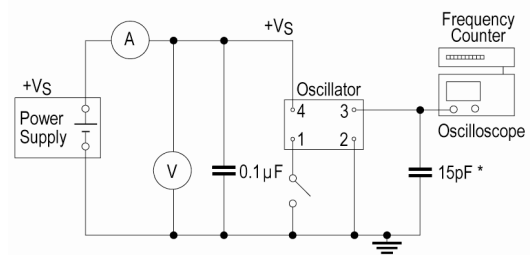
- Shock: MIL-STD-202, Method 213, Condition E
- Vibration: MIL-STD-883, Method 2007, Condition A
- Storage Temperature Range: -55 to 125°C

Compliance

- RoHS Status (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


* Inclusive of jigging and equipment capacitance

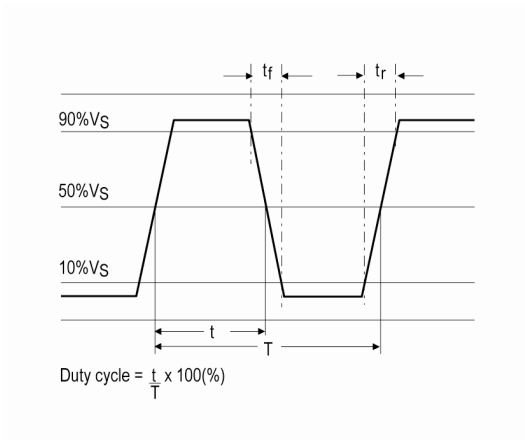
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Wave Form



Phase Noise / Jitter



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