


Description

- Low jitter 2.5V surface mount oscillator in a ceramic package, with a hermetically sealed metal lid and LVDS outputs
- Model CFPS-61
- Model Issue number 4

Frequency Parameters

- Frequency 150.0MHz
- Frequency Stability $\pm 100.00\text{ppm}$
- Operating Temperature Range -10.00 to 70.00°C

Electrical Parameters

- Supply Voltage $2.5\text{V} \pm 5\%$
- Current Draw 63.00mA
- Standby Current: $30\mu\text{A}$ max
- Start-Up Time: 10ms max

Output Details

- Output Compatibility LVDS
- Drive Capability 100Ω
- Rise and Fall Time 0.7ns max
- Duty Cycle 45/55%
- Differential Output Voltage (Vod): 0.33V typ
- Differential Output Voltage Swing (Vopp): $0.25\text{V}_{\text{pk-pk}}$ min
- Offset Voltage (Vos): 1.125V to 1.375V (1.25V typ)

Output Control

- Enable/Disable Operation:
 Logic '1' to pad 1 ($70\%V_s$ min) enables oscillator output
 Logic '0' to pad 1 ($30\%V_s$ max) disables oscillator output; when disabled the oscillator output goes to the high impedance state
 No connection to pad 1 enables oscillator output

Noise Parameters

- Phase Jitter (12kHz to 20MHz): 1ps rms max

Environmental Parameters

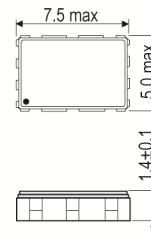
- Drop: 30cm drop (3 times) onto hard wooden board
- Vibration: 20G (10Hz-55Hz), 1.52mm amplitude, 2hrs in 3 mutually perpendicular planes (total 6hrs)
- Storage Temperature Range: -55 to 125°C

Compliance

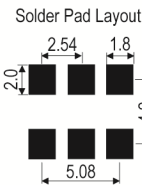
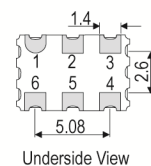
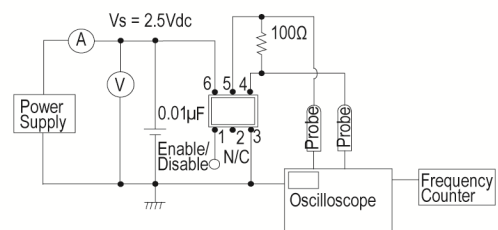
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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


Outline (mm)


- Pad Connections
1. Enable/Disable
 2. N/C
 3. GND
 4. Output 1
 5. Output 2
 6. +Vs

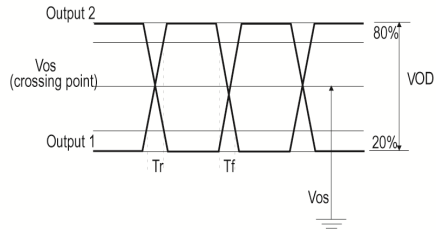

Test Circuit

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Wave Form



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