


Description

- Standard 7 x 5mm Voltage Controlled Crystal Oscillator Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPV-42
- Model Issue number 7

Frequency Parameters

- Frequency 27.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$
- Operating Temperature Range -10.00 to 70.00°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 0.3\text{V}$
- Current Draw 15.00mA
- Start-Up Time: 10ms max
- Linearity: Positive $\pm 10\%$ max
- Modulation Bandwidth: 20kHz min

Frequency Adjustment

- Pulling $\pm 50\text{ppm}$ min
- Control Voltage $1.65\text{V} \pm 1.5\text{V}$
- Input Impedance *****See Technical Notes*****

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle 40/60%
- Logic '1' ($>70\%VS$) to pad 2 enables oscillator output
- Logic '0' ($<30\%VS$) to pad 2 disables oscillator output; when disabled the oscillator output goes to the high impedance state
- No connection pad 2 enables oscillator output

Noise Parameters

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

Environmental Parameters

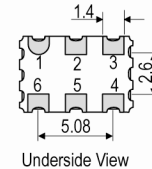
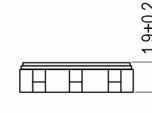
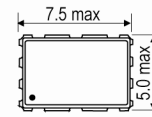
- Storage Temperature Range: -40 to 85°C
- Shock: MIL-STD-202F, Method 213B (1000G, 0.5ms, 1/2 sine)
- Vibration: Sinewave, frequency range 10-55Hz, amplitude 1.52mm, 2hrs in X, Y, Z axes (total 6 hrs)

Compliance

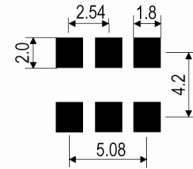
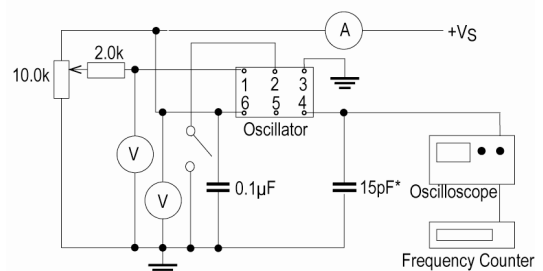
- RoHS Status (2011/65/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

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


Outline (mm)


- Pad Connections
1. Voltage Control
 2. Tri-State Operation
 3. GND
 4. Output
 5. N/C
 6. +Vs

Solder Pad Layout

Test Circuit


*Inclusive of jigging and equipment capacitance

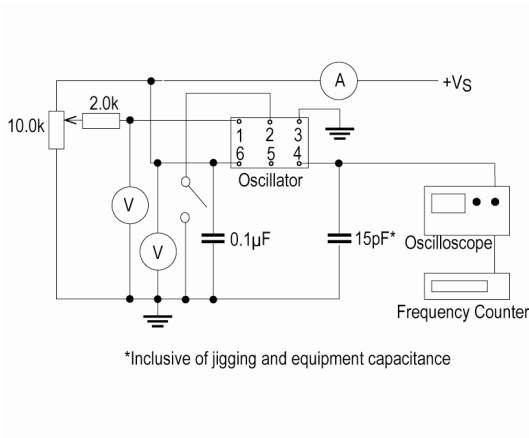
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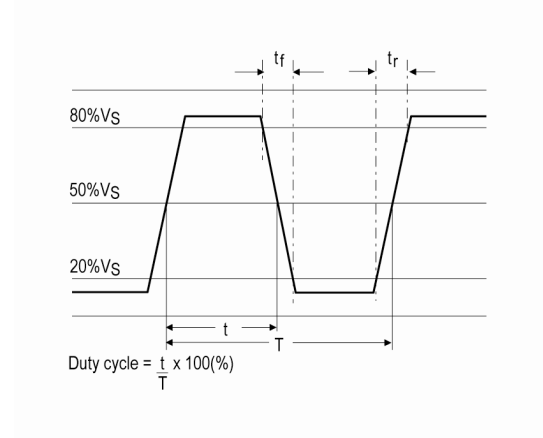
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Test Circuit



Wave Form



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