


Description

- Standard 7 x 5mm Voltage Controlled Crystal Oscillator Ceramic package with a seam sealed metal lid, hermetically sealed
- Model CFPV-44
- Model Issue number 7

Frequency Parameters

- Frequency 34.3680MHz
- Frequency Stability $\pm 50.00\text{ppm}$
- Operating Temperature Range -10.00 to 70.00°C

Electrical Parameters

- Supply Voltage $3.3\text{V} \pm 0.3\text{V}$
- Current Draw 25.00mA
- Start-Up Time: 10ms max
- Linearity: Positive $\pm 10\%$ max
- Modulation Bandwidth: 20kHz min

Frequency Adjustment

- Pulling $\pm 100\text{ppm}$ min
- Control Voltage $1.65\text{V} \pm 1.5\text{V}$
- Input Impedence $1\text{-}80\text{MHz}$ $100\text{k}\Omega$ typ,
 $>80\text{-}125\text{MHz}$ $5\text{M}\Omega$ typ

Output Details

- Output Compatibility HCMOS
- Drive Capability 15pF max
- Rise and Fall Time 5.0ns max
- Duty Cycle $40/60\%$
- Logic '1' ($>70\%V_S$) to pad 2 enables oscillator output
Logic '0' ($<30\%V_S$) 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

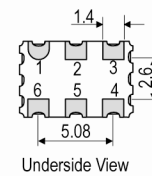
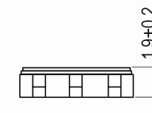
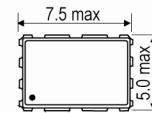
- Storage Temperature Range: -40 to 85°C
- Shock: MIL-STD-202F, Method 213B (1000G, 0.5ms, 1/2 sine)
- Vibration: Sinewave, frequency range 10-55Hz, amplitude 1.52mm, 2hrs in X, Y, Z axes (total 6 hrs)

Compliance

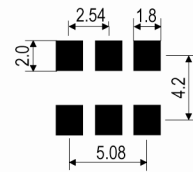
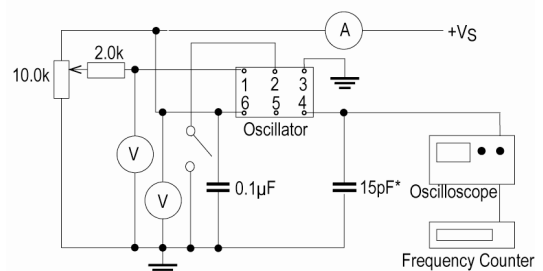
- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 100
- 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

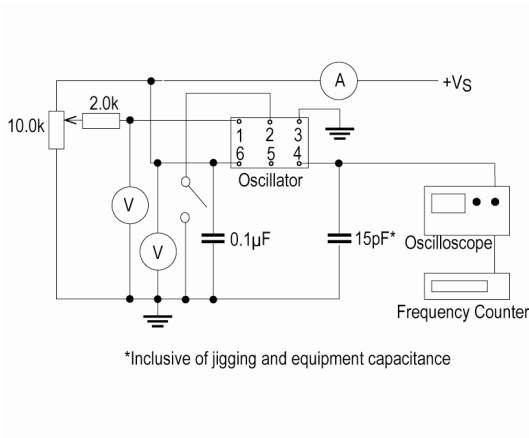
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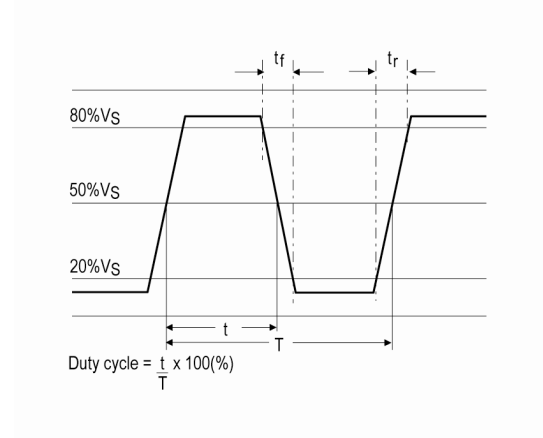
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Test Circuit



Wave Form



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