



ISSUE 7; May 2012 - RoHS 2011/65/EU



Description

- Standard 7 x 5mm Voltage Controlled Crystal Oscillators
- Pulling of ± 100 ppm min APR
- Ceramic package with a seam sealed metal lid, hermetically sealed

Frequency Range

- Frequency 1.50 to 80.00MHz

Supply Voltage

- Voltage 3.3V ± 0.3 V

Output Compatibility & Load

- Output Compatibility HCMOS

Frequency Stabilities

- Frequency Stability ± 100 ppm
(inclusive of supply voltage and output load variations over the operating temperature range)

Operating Temperature Ranges

- 0 to 70°C

Frequency Adjustment

- Pulling ± 100 ppm min APR
- Control Voltage 1.65V ± 1.65 V
- Input Impedance 50k Ω min
- Linearity: Positive $< \pm 10\%$
- Modulation Bandwidth: > 10 kHz (@-3dB, Vc=2.5V)

Output Details

- Logic '1' (> 2.5 V) to pad 2 enables oscillator output
- Logic '0' (< 0.5 V) 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 Parameter

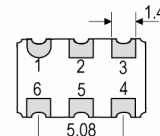
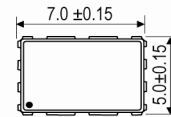
- Phase Jitter: 20ps max @ 1sigma

Environmental Parameters

- Operable Temperature Range: -40 to 85°C
- Shock: MIL-STD-202, Method 213, Cond. E
- Storage Temperature Range: -55 to 125°C
- Vibration: MIL-STD-883, Method 2007, Cond. A

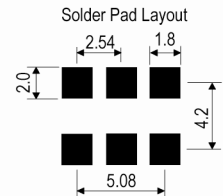


Outline (mm)



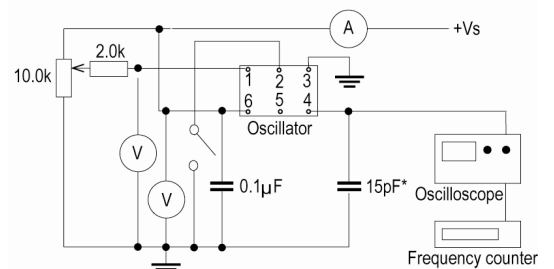
Underside View

- Pad Connections
- Voltage Control
 - Tri-State Operation
 - Ground
 - Output
 - N/C
 - +Vs



Solder Pad Layout

Test Circuit



*Inclusive of jigging and equipment capacitance

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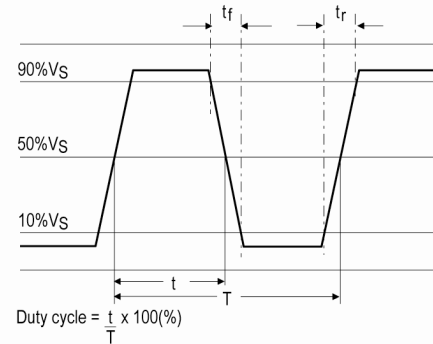
Ordering Information (*minimum required)

- Example
20.0MHz CFPV-45
HCMOS ±100ppm 0 to 70C 3.3V ±100ppm min
- Frequency*
Model*
Output
Frequency Stability (over operating temperature range)
Operating Temperature Range
Supply Voltage
Pullability

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
Pack Size 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
Pack Size 1,000
- Alternative packing options available

Output Waveform



Electrical Specification - maximum limiting values 3.3V ±0.3V

Frequency Range	Temp Range	Stability	Pullability	Supply Current	Rise & Fall (10 to 90%)	Duty Cycle %
1.50 to 80.00MHz	0 to 70°C	±100ppm	±100ppm min APR	50.0mA	10ns	40/60%

This document was correct at the time of printing; please contact your local sales office for the latest version

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