

CFPV-41, -42, -43, -44

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Delivery Options

- Common frequencies are available from stock. Please see p207 for details

Output Compatibility

- Tri-state HCMOS

Description

- CFPV-41, -42, -43, -44 are surface mount voltage controlled crystal oscillators providing a high degree of frequency stability over a wide temperature range. It is particularly suited to applications where space is at a premium

Package Outline

- 7.5 × 5.0 × 1.9mm SMD (surface mount device)

Standard Frequencies

- 2.048MHz, 4.096MHz, 8.192MHz, 10.0MHz, 12.288MHz, 16.384MHz, 19.44MHz, 20.48MHz, 24.576MHz, 26.0MHz, 28.6363MHz, 32.768MHz, 34.368MHz, 34.816MHz, 38.880MHz, 40.960MHz, 44.7360MHz, 49.152MHz, 50.0MHz, 51.84MHz

Standard Frequency Stabilities

- ±25ppm, ±50ppm, ±100ppm (inclusive of supply voltage & output load variations over the operating temperature range)

Operating Temperature Range

- 10 to 70°C

Storage Temperature Range

- 40 to 85°C

Voltage Control Pin 1

- 2.5V±2.0V (CFPV-41, -43)
- 1.65V±1.5V (CFPV-42, -44)

Linearity

- <±10%

Modulation Bandwidth

- >20kHz

Start up Time

- 10mS max.

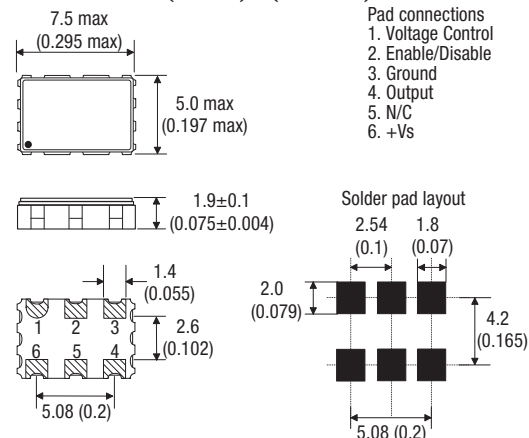
Marking

- Model number
- Frequency Stability Code
- Frequency

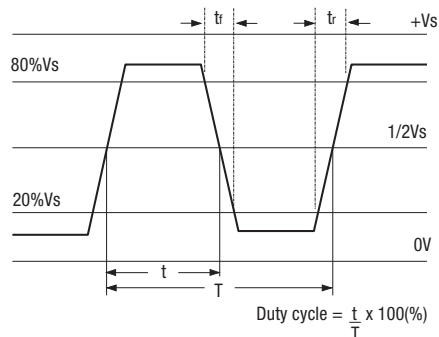
Minimum Order Information Required

- Frequency + Model Number + Frequency Stability

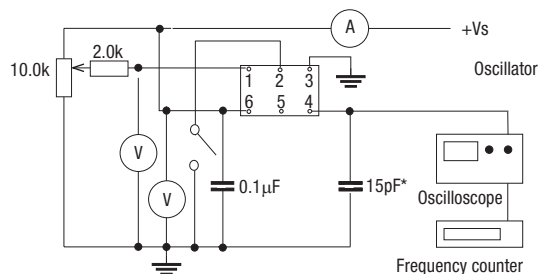
Outline in mm (inches) - (scale 2:1)



Output Waveform - HCMOS



Test Circuit

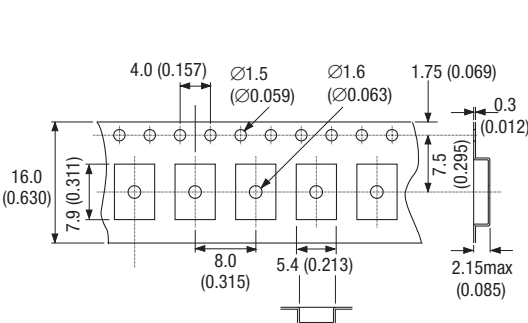


*Inclusive of jigging & equipment capacitance

Electrical Specification - maximum limiting values when measured in test circuit

Frequency Range	Frequency Stability	Supply Voltage	Supply Current	Output Frequency Change	Rise Time (t _r)	Fall Time (t _f)	Duty Cycle	Model Number
1.0 to 18.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	20mA	±50ppm min	5ns	5ns	40/60%	CFPV-41
				±100ppm min				CFPV-43
		3.3V±0.16V	15mA	±50ppm min				CFPV-42
				±100ppm min				CFPV-44
>18.0 to 30.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	30mA	±50ppm min	5ns	5ns	40/60%	CFPV-41
				±100ppm min				CFPV-43
		3.3V±0.16V	15mA	±50ppm min				CFPV-42
				±100ppm min				CFPV-44
>30.0 to 36.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	30mA	±50ppm min	5ns	5ns	40/60%	CFPV-41
				±100ppm min				CFPV-43
		3.3V±0.16V	25mA	±50ppm min				CFPV-42
				±100ppm min				CFPV-44
>36.0 to 45.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	40mA	±50ppm min	5ns	5ns	40/60%	CFPV-41
				±100ppm min				CFPV-43
		3.3V±0.16V	25mA	±50ppm min				CFPV-42
				±100ppm min				CFPV-44
>45.0 to 52.0MHz	±25ppm, ±50ppm, ±100ppm	5V±0.25V	40mA	±50ppm min	5ns	5ns	40/60%	CFPV-41
				±100ppm min				CFPV-43
<div>Ordering Example<div>13.0MHzCFPV-43B</div><div>Frequency_____</div><div>Model No_____</div><div>Frequency Stability: A = ±25ppm; B = ±50ppm; C = ±100ppm_____</div></div>								

Outline in mm (inches) - Tape



Outline in mm (inches) - Reel (scale 1:8)

