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

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Delivery Options

Please contact our sales office for current leadtimes

Description

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

Package Outline

• 7.5 x 5.0 x 1.9mm SMD (surface mount device)

Output Compatibility

Tri-state HCMOS, Load 15pF max

Standard Frequency Stabilities

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

Operating Temperature Ranges

- -10 to 70°C
- -40 to +85°C

Storage Temperature Range

■ -55 to 125°C

Voltage Control (pad 1)

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

Linearity and Modulation Bandwidth

■ <±10%

Modulation Bandwidth

■ >20kHz

Tri-State Operation

- Logic '0' to pad 2 disables oscillator output; when disabled oscillator output goes to the high impedance state
- No connection ot Logic '1' to pad 2 enables oscillator

Solder Conditions

 For typical soldering conditions, please see the relevant pages in Applications Notes

Marking

 Model number, Operating Temperature Code (if applicable), Frequency Stability Code, Frequency

Minimum Order Information Required

 Frequency + Operating Temperature Code (if applicable) + Model Number + Frequency Stability

Outline in mm



Output Waveform - HCMOS



Test Circuit



*Inclusive of jigging & equipment capacitance

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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	5V±0.25V	20mA	±50ppm min	5ns	5ns	40/60%	CFPV-41,-411
	±100ppm			±100ppm min				CFPV-43, -43I
		3.3V±0.16V	15mA	±50ppm min				CFPV-42, -42I
				±100ppm min				CFPV-44, -44I
>18.0 to 30.0MHz	±25ppm, ±50ppm	5V±0.25V	30mA	±50ppm min	5ns	5ns	40/60%	CFPV-41, -411
	±100ppm			±100ppm min				CFPV-43, -43I
		3.3V±0.16V	15mA	±50ppm min				CFPV-42, -42I
				±100ppm min				CFPV-44, -44I
>30.0 to 36.0MHz	±25ppm, ±50ppm	5V±0.25V	30mA	±50ppm min	5ns	5ns	40/60%	CFPV-41, -411
	±100ppm			±100ppm min				CFPV-43, -43I
		3.3V±0.16V	25mA	±50ppm min				CFPV-42, -42I
				±100ppm min				CFPV-44, -44I
>36.0 to 45.0MHz	±25ppm, ±50ppm ±100ppm	5V±0.25V	40mA	±50ppm min	5ns	5ns	40/60%	CFPV-41, -411
				±100ppm min				CFPV-43, -43I
		3.3V±0.16V	25mA	±50ppm min				CFPV-42, -42I
				±100ppm min				CFPV-44, -44I
>45.0 to 52.0MHz	±25ppm, ±50ppm	5V±0.25V	40mA	±50ppm min	5ns	5ns	40/60%	CFPV-41, -411
	±100ppm			±100ppm min				CFPV-43, -43I
Ordering Example <u>13.0MHz</u> <u>CFPV-43</u> Į <u>B</u>								
Frequency								
Model number								
Operating Temperature Code: I = -40 to 85°C; Not applicable for -10 to 70°C								
Frequency Stability: A = ±25ppm, B = ±50ppm, C = ±100ppm								

Electrical Specifications - maximum limiting values when measured in HCMOS test circuit.

Outline in mm - Reel





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Note. For other frequencies / specifications please contact our sales office. Some combinations of specification may not be available; please check with our sales office.

Outline in mm - Tape