

ISSUE 7; April 2016

Description

 Standard 7 x 5mm Voltage Controlled Crystal Oscillator Ceramic package with a seam sealed metal lid, hermetically sealed

For pulling of ± 50 ppm please see our CFPV-41 range For pulling of ± 100 ppm min APR please see our CFPV-46 range

For a 3.3V version, please see our CFPV-44 range

Frequency Parameters

■ Frequency 1.0MHz to 80.0MHz
■ Frequency Stability ±25.00ppm to ±100.00ppm

Electrical Parameters

■ Supply Voltage 5.0V ±0.25V

Start-Up Time: 10ms max
 Linearity: Positive ±10% max
 Modulation Bandwidth: 20kHz min

Frequency Adjustment

Pulling ±100ppm min
 Control Voltage 2.5V ±2.0V
 Input Impedence 100kΩ typ

Operating Temperature Ranges

■ -10 to 70°C ■ -40 to 85°C

Output Details

Output Compatability HCMOSDrive Capability 15pF max

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)

Ordering Information

Frequency*

Model*

Output

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Supply Voltage

Pullability

(*minimum required)

Example

20.0MHz CFPV-43

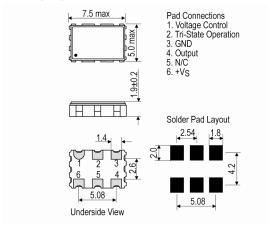
HCMOS ±50ppm -40 to 85C 5.0V ±100ppm min

Sales Office Contact Details:

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Outline (mm)





Compliance

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

Packaging Details

■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

Pack Size: 1,000

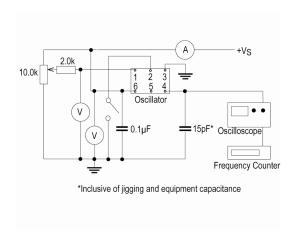
Pack Style: Cutt In tape, cut from a reel

Pack Size: 1

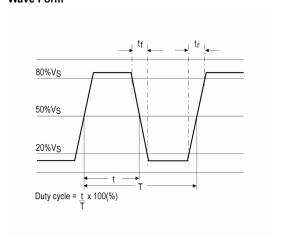
■ Pack Style: Bulk Loose in bulk pack

Pack Size: 100

Test Circuit



Wave Form



Electrical Specification - maximum limiting values 5.0V ±0.25V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	18.0MHz	-10 to 70	±25.0	20	5	40/60%
		-40 to 85	±25.0	20	5	40/60%
18.000001MHz	30.0MHz	-10 to 70	±25.0	30	5	40/60%
		-40 to 85	±25.0	30	5	40/60%
30.000001MHz	36.0MHz	-10 to 70	±25.0	30	5	40/60%
		-40 to 85	±25.0	30	5	40/60%
36.000001MHz	52.0MHz	-10 to 70	±25.0	40	5	40/60%
		-40 to 85	±25.0	40	5	40/60%
52.000001MHz	80.0MHz	-10 to 70	±50.0	50	5	40/60%
		-40 to 85	±50.0	50	5	40/60%

This document was correct at the time of printing; please contact your local sales office for the latest version. Click to view latest version on our website.

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