

ISSUE 10; May 2015

Description

- PLL based, one time only factory programmable for a fast lead time
- Crystal oscillator in a hermetically sealed ceramic package with a metal lid
- See CFPS-9 for our standard crystal oscillator alternative

Frequency Parameters

- Frequency 1.0MHz to 133.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 5\text{ppm}$ max in 1st year @ 25°C

Electrical Parameters

- Supply Voltage 3.3V $\pm 0.3\text{V}$

Operating Temperature Ranges

- 0 to 70°C
- 40 to 85°C

Output Details

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

Drive Capability	
0.0MHz to 40.0MHz	30pF
40.0MHz to 133.0MHz	15pF

Noise Parameters

- Jitter pk-pk (typical)

1 to 33MHz	>33MHz
100ps	75ps
- Jitter pk-pk (max)

1 to 33MHz	>33MHz
250ps	175ps

Environmental Parameters

- Storage Temperature Range: -55 to 125°C

Ordering Information

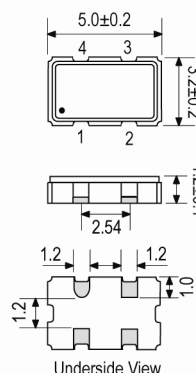
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Example
 - 20.00MHz CFPP-9
 - CMOS $\pm 50\text{ppm}$ -40 to 85C 3.3V

Compliance

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



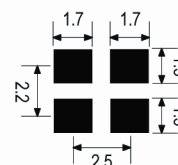
Outline (mm)



Pad Connections

1. N/C or Tri-State
2. GND
3. Output
4. +Vs

Solder Pad Layout



Sales Office Contact Details:

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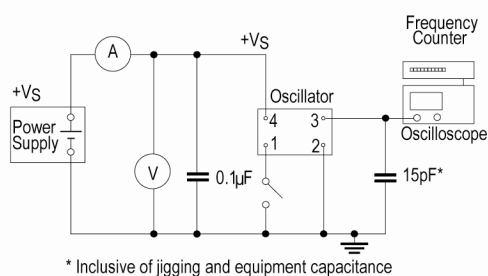
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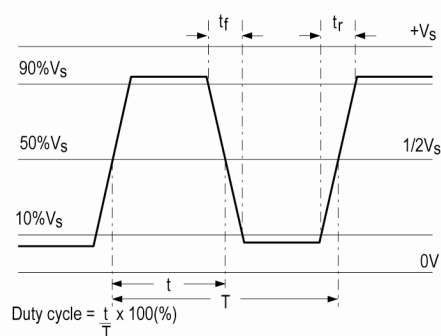
Packaging Details

- Pack Style: Bulk Loose in bulk pack
Pack Size: 1
- Pack Style: Reel Tape & reel in accordance with EIA-481-D
Pack Size: 1,000

Test Circuit



Wave Form



Electrical Specification - maximum limiting values 3.3V ±0.3V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	40.0MHz	0 to 70	±25.0	25	4	45/55
		-40 to 85	±25.0	25	4	45/55
40.000001MHz	66.0MHz	0 to 70	±25.0	25	4	40/60
		-40 to 85	±25.0	25	4	40/60
66.000001MHz	100.0MHz	0 to 70	±25.0	25	4	40/60
		-40 to 85	±25.0	25	4	40/60
100.000001MHz	133.0MHz	0 to 70	±25.0	45	4	40/60
		-40 to 85	±25.0	45	4	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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