

ISSUE 9; July 2015

Description

- PLL based, one time only factory programmable for a fast lead time
- Crystal oscillator in a plastic encapsulated 'J' leaded SMD package

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 1st year

Electrical Parameters

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

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

- Output Compatibility: CMOS

Drive Capability	
1.0MHz to 40.0MHz	30pF
40.0MHz to 133.0MHz	15pF

Output Control

- Tri-state Operation:
Logic '1' to pad 1 enables oscillator output
Logic '0' to pad 1 disables oscillator output; when disabled the oscillator output goes to the higher impedance state
No connection to pad 1 enables oscillator output

Noise Parameters

- Jitter pk-pk (typical):
1 to 33MHz: 100ps
>33MHz: 75ps
- Jitter pk-pk (max):
1 to 33MHz: 250ps
>33MHz: 175ps

Environmental Parameters

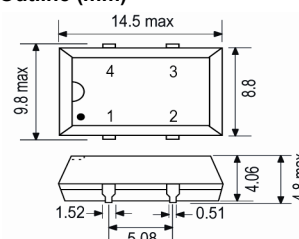
- Storage Temperature Range: -55 to 125°C

Ordering Information

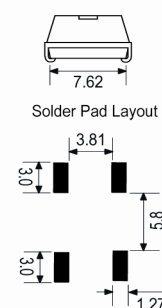
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
20.0MHz CFPP-131
CMOS $\pm 50\text{ppm}$ -40 to 85°C 3.3V



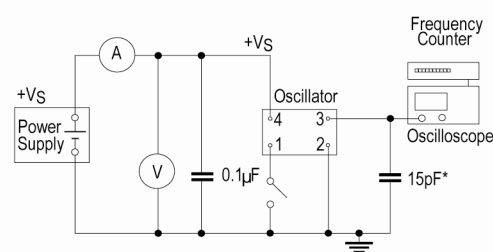
Outline (mm)



- Pad Connections
1. N/C or Tri-State
 2. GND
 3. Output
 4. +VS



Test Circuit



* Inclusive of jigging and equipment capacitance

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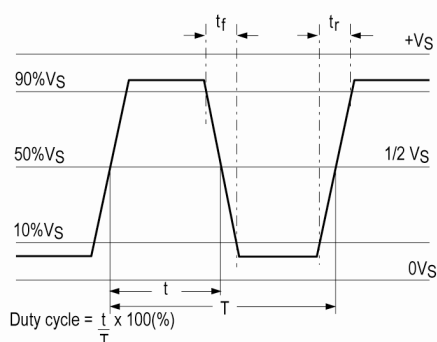
Compliance

- RoHS Status (2011/65/EU) Compliant
- REACH Status Compliant
- MSL Rating (JDEC-STD-033): 1

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
- Pack Style: R500
Pack Size: 500

Wave Form



Electrical Specification - maximum limiting values 3.3V $\pm$ 0.3V

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		$^{\circ}\text{C}$	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

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