

ISSUE 9; June 2016

Description

- PLL based, one time only factory programmable (for a fast lead time) crystal oscillator in a plastic encapsulated 'J' leaded SMD package.
This model is not approved for on-board avionics applications; in such instances our 'CFPP-131 AVIATION' version should be specified.



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 3.3V $\pm 0.3\text{V}$

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

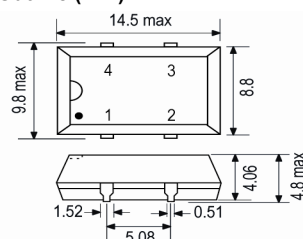
Environmental Parameters

- Storage Temperature Range: -55 to 125°C

Ordering Information

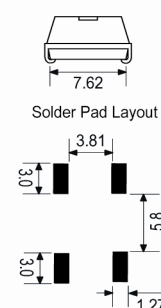
- Frequency*
Model*
Output Compatibility
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Supply Voltage
(*minimum required)
- Example
20.0MHz CFPP-131
CMOS $\pm 50\text{ppm}$ -40 to 85C 3.3V

Outline (mm)

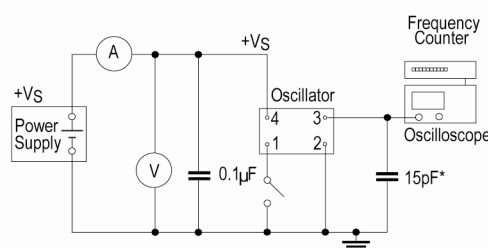


Pad Connections

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



Test Circuit



* Inclusive of jigging and equipment capacitance

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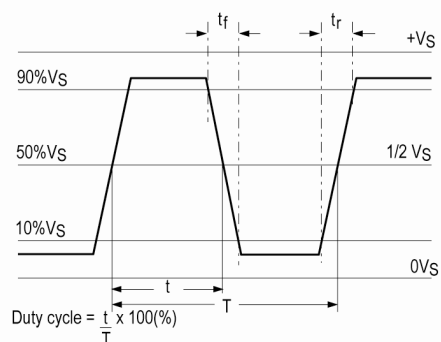
Compliance

- 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

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 -40 to 85	±25.0 ±25.0	25 25	4 4	45/55% 45/55%
40.000001MHz	66.0MHz	0 to 70 -40 to 85	±25.0 ±25.0	25 25	4 4	40/60% 40/60%
66.000001MHz	100.0MHz	0 to 70 -40 to 85	±25.0 ±25.0	25 25	4 4	40/60% 40/60%
100.000001MHz	133.0MHz	0 to 70 -40 to 85	±25.0 ±25.0	45 45	4 4	40/60% 40/60%

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