

ISSUE 9; May 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 150.0MHz
- Frequency Stability $\pm 25.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Ageing $\pm 5\text{ppm}$ max in 1st year

Electrical Parameters

- Supply Voltage 5.0V $\pm 0.5\text{V}$

Operating Temperature Ranges

- 0 to 70°C
- 40 to 85°C

Output Details

- Output Compatibility CMOS

Drive Capability	
0.0MHz to 66.0MHz	50pF
66.0MHz to 150.0MHz	25pF

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

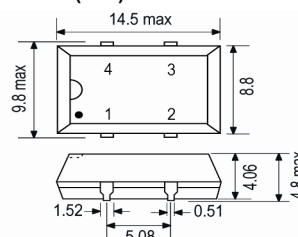
- Storage Temperature Range: -55 to 125°C

Ordering Information

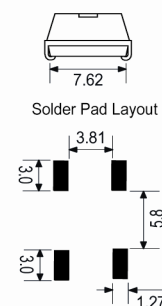
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- (*minimum required)
- Example
20.0MHz CFPP-57
CMOS $\pm 50\text{ppm}$ -40 to 85C 5.0V



Outline (mm)



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



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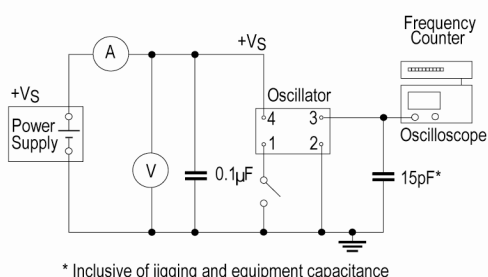
Compliance

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

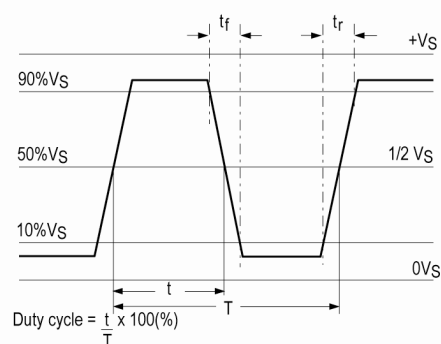
Packaging Details

- Pack Style: R500 Tape & reel in accordance with EIA-481-D
Pack Size: 500
- Pack Style: Reel
Pack Size: 1,000
- Pack Style: Bulk Loose in bulk pack
Pack Size: 1

Test Circuit



Wave Form



Electrical Specification - maximum limiting values 5.0V ±0.5V

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	45	4	45/55
		-40 to 85	±25.0	45	4	45/55
40.000001MHz	66.0MHz	0 to 70	±25.0	45	4	45/55
		-40 to 85	±25.0	45	4	45/55
66.000001MHz	100.0MHz	0 to 70	±25.0	45	4	40/60
		-40 to 85	±25.0	45	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
133.000001MHz	150.0MHz	0 to 70	±25.0	60	4	40/60
		-40 to 85	±25.0	60	4	40/60

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