

ISSUE 11; June 2015

Description

- PLL based, one time only factory programmable for a fast lead time
- Crystal oscillator in a hermetically sealed 8-pin DIL package
- See CFPS-302 and CFPS-303 for 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 pin 1 enables oscillator output
- Logic '0' to pin 1 disables oscillator output; when disabled the oscillator output goes to the high impedance state
- No connection to pin 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

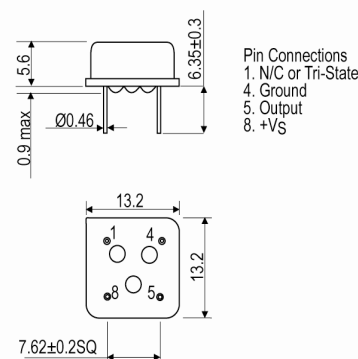
- Frequency*
- Model*
- Output Compatibility
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Supply Voltage
- Example
- 20.00MHz CFPP-303
- CMOS $\pm 50\text{ppm}$ -40 to 85C 3.3V

Compliance

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



Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200
Germany: 0800 1808 443

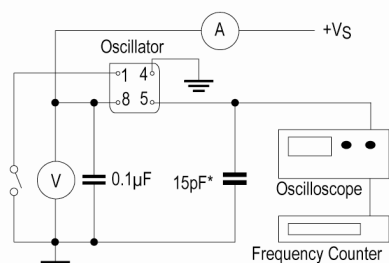
France: 0800 901 383
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Packaging Details

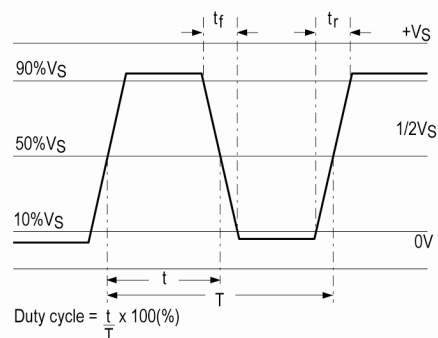
- Pack Style: Bulk Loose in bulk pack
- Pack Size: 1

Test Circuit



*Inclusive of jigging and equipment capacitance

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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