

ISSUE 10; April 2016

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.

This model is not approved for on-board avionics applications; in such instances our 'CFPP-9 AVIATION' version should be specified.

See CFPS-9 for our standard crystal oscillator alternative.

Frequency Parameters

Frequency
Frequency Stability
Ageing
1.0MHz to 133.0MHz
±25.00ppm to ±100.00ppm
±5ppm max in 1st year @ 25°C

Electrical Parameters

■ Supply Voltage 3.3V ±0.3V

Operating Temperature Ranges

- 0 to 70°C
- -40 to 85°C

Output Details

Output Compatability 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

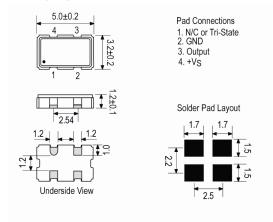
Example

20.00MHz CFPP-9

CMOS ±50ppm -40 to 85C 3.3V



Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200 France: 0800 901 383 Germany: 0800 1808 443 USA: +1.760.318.2824

Compliance

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

Packaging Details

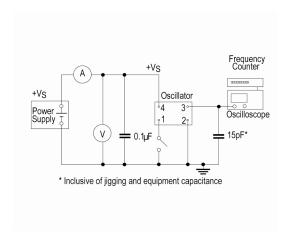
■ Pack Style: Bulk Loose in bulk pack

Pack Size: 1

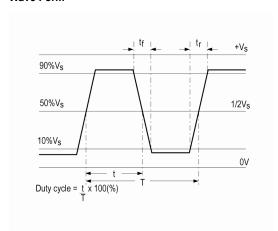
■ Pack Style: Reel Tape & reel in accordance with EIA-481-D

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. Click to view latest version on our website.

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