

ISSUE 1; May 2024

### Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 Rev D and with IATF-16949:2016 release. Not suitable for safety critical applications.



### Frequency Parameters

- Frequency: 1.0MHz to 40.0MHz
- Frequency Stability:  $\pm 25.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing:  $\pm 5\text{ppm}$  max per year @ 25°C

### Electrical Parameters

- Supply Voltage: 1.8V  $\pm 5\%$

### Operating Temperature Ranges

- -40 to 85°C
- -40 to 125°C

### Output Details

- Output Compatibility: CMOS
- Drive Capability: 15pF

### Output Control

- Enable/Disable Operation:  
Logic '1' (>70% Vs) to pad 1 enables oscillator output.  
Logic '0' (<30% Vs) to pad 1 disables oscillator output; the oscillator output goes to the high impedance state.  
No connection to pad 1 enables oscillator output.
- Standby Current:  
-40 to 85°C: 10µA max  
-40 to 125°C: 20µA max

### Environmental Parameters

- Storage Temperature Range: -55 to 150°C
- Qualified to AEC-Q200 Rev D

### Ordering Information

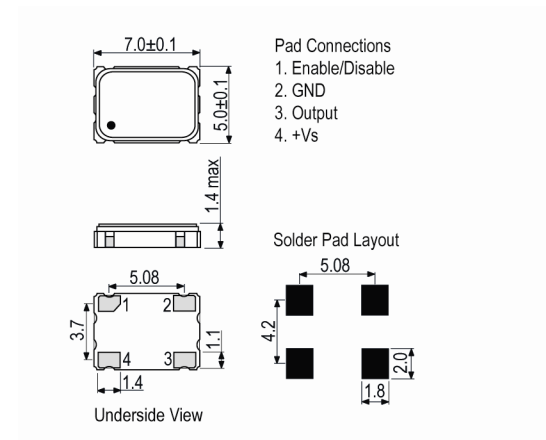
- Frequency\*
- Model\*
- Output
- Frequency Stability\*
- Operating Temperature Range\*
- Supply Voltage  
(\*minimum required)
- Example  
20.0MHz CFPS-31 AUTO  
CMOS  $\pm 100\text{ppm}$  -40 to 125C 1.8V

### Compliance

- RoHS Status (2015/863/EU): Compliant
- REACh Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable



### Outline (mm)



### Sales Office Contact Details:

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### Packaging Details

- Pack Style: Bulk      Loose in bulk pack  
Standard Pack Quantity: 100
- Pack Style: Reel      Tape & reel in accordance with EIA-481  
Standard Pack Quantity: 1,000

### Electrical Specification - maximum limiting values 1.8V $\pm$ 5%

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Current Draw	Rise and Fall Time	Duty Cycle
		°C	ppm	mA	ns	%
1.0MHz	9.999999MHz	-40 to 85 -40 to 125	$\pm$ 25.0 $\pm$ 50.0	- 5	5 5	40/60% 40/60%
10.0MHz	19.999999MHz	-40 to 85 -40 to 125	$\pm$ 25.0 $\pm$ 50.0	6 6	5 5	40/60% 40/60%
20.0MHz	31.999999MHz	-40 to 85 -40 to 125	$\pm$ 25.0 $\pm$ 50.0	6 6	5 5	40/60% 40/60%
32.0MHz	40.0MHz	-40 to 85 -40 to 125	$\pm$ 25.0 $\pm$ 50.0	15 15	5 5	40/60% 40/60%

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