

ISSUE 3; January 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 135.0MHz
- 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 3.3V  $\pm 10\%$

### 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

### Manufacturing Details

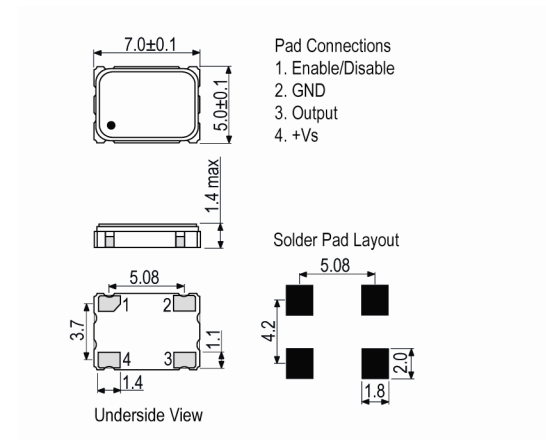
- RoHS Terminations NiAu
- RoHS Reflow 260°C max for 10secs max

### Ordering Information

- Frequency\*  
Model\*  
Output  
Frequency Stability\*  
Operating Temperature Range\*  
Supply Voltage  
(\*minimum required)
- Example  
20.0MHz CFPS-73 AUTO  
CMOS  $\pm 100\text{ppm}$  -40 to 125C 3.3V
- Note:  $\pm 50\text{ppm}$  stability over -40+125C may be available, please contact the IQD sales dept to discuss further.



### Outline (mm)



### Sales Office Contact Details:

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### Compliance

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

### Packaging Details

- Pack Style: Reel      Tape & reel in accordance with EIA-481-D  
Pack Size: 1,000
- Pack Style: Bulk      Loose in bulk pack  
Pack Size: 100
- Pack Style: Cutt      Cut tape  
Pack Size: 100

### Electrical Specification - maximum limiting values 3.3V ±10%

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	±25.0	7	10	45/55%
		-40 to 125	±100.0	7	10	45/55%
10.0MHz	19.999999MHz	-40 to 85	±25.0	7	10	45/55%
		-40 to 125	±100.0	7	10	45/55%
20.0MHz	31.999999MHz	-40 to 85	±25.0	12	10	45/55%
		-40 to 125	±100.0	12	10	45/55%
32.0MHz	49.999999MHz	-40 to 85	±25.0	20	10	45/55%
		-40 to 125	±100.0	20	10	45/55%
50.0MHz	79.999999MHz	-40 to 85	±25.0	25	8	45/55%
		-40 to 125	±100.0	25	8	45/55%
80.0MHz	99.999999MHz	-40 to 85	±25.0	30	5	45/55%
		-40 to 125	±100.0	30	5	45/55%
100.0MHz	135.0MHz	-40 to 85	±25.0	40	4	45/55%
		-40 to 125	±100.0	40	4	45/55%

*This document was correct at the time of printing; please contact your local sales office for the latest version.*

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