

ISSUE 3; May 2022

Description

- Ceramic package with a hermetically seam sealed metal lid suitable for automotive applications. Qualified to AEC-Q200 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

Manufacturing Details

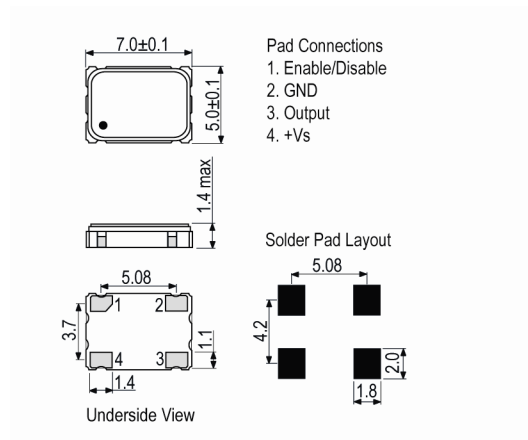
- RoHS Terminations NiAu
- RoHS Reflow 260°C max for 10secs max

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)



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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%

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