

ISSUE 1; December 2021

### 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 12.0MHz to 50.0MHz
- Frequency Tolerance  $\pm 10.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Tolerance Condition @ 25°C
- Frequency Stability  $\pm 20.00\text{ppm}$  to  $\pm 100.00\text{ppm}$
- Ageing  $\pm 5\text{ppm}$  max per year @ 25°C

### Electrical Parameters

- Load Capacitance (CL) 8.0pF to 30.0pF
- Shunt Capacitance (C0) 5pF max
- Drive Level 100 $\mu$ W max
- Note: Non-standard Load Capacitances and Drive Levels are available - please contact an IQD Sales Office.

### Operating Temperature Ranges

- -40 to 85°C
- -40 to 125°C

### Environmental Parameters

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

### Ordering Information

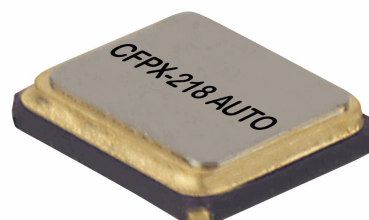
- Frequency\*
- Model\*
- Frequency Tolerance (@ 25°C)\*
- Frequency Stability (over operating temperature range)\*
- Operating Temperature Range\*
- Load Capacitance\*
- Overtone
- (\*minimum required)
- Example  
20.0MHz CFPX-218 AUTO  
50/100/-40 to 85C/16 FUND

### Compliance

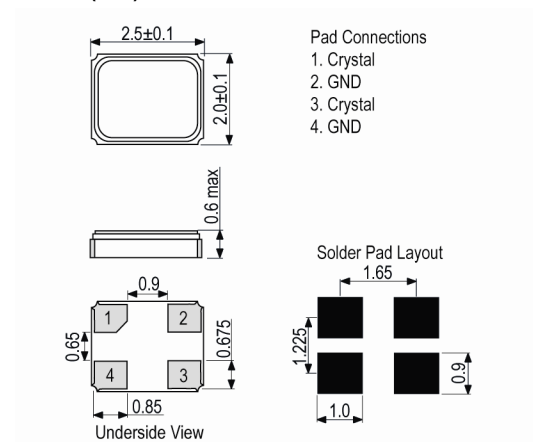
- RoHS Status (2015/863/EU) Compliant
- REACh Status Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

### Packaging Details

- Pack Style: Cutt In tape, cut from a reel  
Pack Size: 100
- Pack Style: Reel Tape & reel in accordance with EIA-481-D  
Pack Size: 3,000



### Outline (mm)



### Sales Office Contact Details:

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Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability* (Min)	Over Tone Order	ESR
		°C	ppm		Ω
12.0MHz	15.999999MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	300 300
16.0MHz	29.999999MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	100 100
30.0MHz	50.0MHz	-40 to 85 -40 to 125	±20 ±50	Fundamental	70 70

\*Stability Maximum values ±100ppm

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