

ISSUE 9; October 2018

Description

 Standard 3.2 x 2.5mm SMD crystal in a ceramic package with a seam sealed metal lid, hermetically sealed.

Frequency Parameters

■ Frequency
■ Frequency Tolerance
■ Tolerance Condition
■ Frequency Stability
■ Ageing
10.00MHz to 200.0MHz
±10.00ppm to ±50.00ppm
±10.00ppm to ±50.00ppm
±5ppm max per year @ 25°C

Electrical Parameters

Load Capacitance (CL)
Shunt Capacitance (C0)
Drive Level
8.0pF to 75.0pF
7pF max
100µW max

Operating Temperature Ranges

- -10 to 60°C
- -10 to 70°C
- -20 to 70°C
- -40 to 85°C

Environmental Parameters

- Storage Temperature Range: -55 to 125°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms, 1/2 sine wave
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Manufacturing Details

RoHS Terminations NiAuRoHS Reflow 260degC 10s

Ordering Information

Frequency*

Model*

Frequency Tolerance*

Frequency Stability (over operating temperature range)*

Operating Temperature Range*

Load Capacitance*

Overtone

(*minimum required)

■ Example

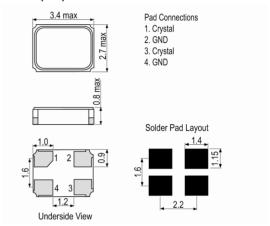
20.0MHz CFPX-180 50/50/-40 to 85C/16 FUND

Compliance

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



Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200 Germany: 0800 1808 443 France: 0800 901 383 USA: +1.760.318.2824 Email: info@iqdfrequencyproducts.com Web: www.iqdfrequencyproducts.com



Quartz Crystal Specification **CFPX-180**

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: 1,000

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability Min*	Over Tone Order	ESR
		°C	ppm		Ω
10.0MHz	11.999999MHz	-10 to 60	±10	Fundamental	200
		-20 to 70	±10		
		-40 to 85	±15		
12.0MHz	15.999999MHz	-10 to 70	±10	Fundamental	120
		-20 to 70	±10		
		-40 to 85	±15		
16.0MHz	19.999999MHz	-10 to 60	±10	Fundamental	70
		-20 to 70	±10		
		-40 to 85	±15		
20.0MHz	29.99999MHz	-10 to 70	±10	Fundamental	50
		-20 to 70	±10		
		-40 to 85	±15		
30.0MHz	39.99999MHz	-10 to 60	±10	Fundamental	40
		-20 to 70	±10		
		-40 to 85	±15		
40.0MHz	54.0MHz	-10 to 70	±10	Fundamental	35
		-20 to 70	±10		
		-40 to 85	±15		
54.000001MHz	200.0MHz	-10 to 60	±30	Fundamental	60
		-20 to 70	±30		
		-40 to 85	±30		

^{*}Stability Maximum values ±50ppm

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.

France: 0800 901 383

USA: +1.760.318.2824