

ISSUE 8; November 2022

Description

- Quartz crystal in a ceramic package with a resin sealed ceramic lid, hermetically sealed
- Not recommended for new designs

Frequency Parameters

- Frequency: 8.0MHz to 150.0MHz
- Frequency Tolerance: $\pm 50.00\text{ppm}$
- Tolerance Condition: @ 25°C $\pm 2^\circ\text{C}$
- Frequency Stability: $\pm 50.00\text{ppm}$
- Ageing: $\pm 5\text{ppm}$ max per year @ 25°C

Electrical Parameters

- Load Capacitance (CL): 10.0pF to 75.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 100 μW max

Operating Temperature Ranges

- 10 to 60°C

Environmental Parameters

- Storage Temperature Range: -40 to 85°C
- Shock: MIL-STD-202F, Method 213B: 1000G, 0.5ms
- Vibration: MIL-STD-202F, Method 204D, Test Condition D: 20G (10Hz-2000Hz), 4hrs in 3 mutually perpendicular planes (total 12hrs)

Manufacturing Details

- RoHS Terminations: NiAu
- RoHS Reflow: 260degC 10s

Ordering Information

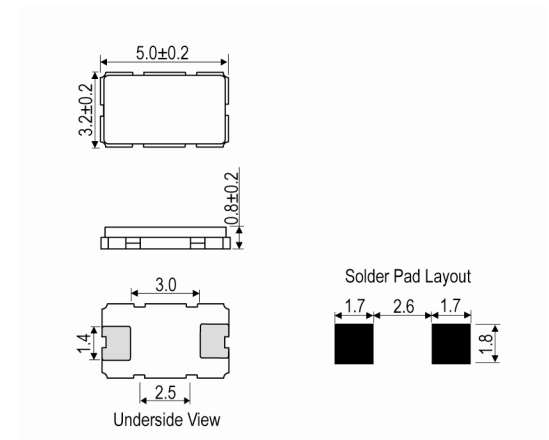
- Frequency*
- Model*
- Frequency Tolerance (@25°C)
- Frequency Stability (over operating temperature range)
- Operating Temperature Range
- Load Capacitance*
- Fundamental or Overtone AT cut* (*minimum required)
- Example
20.0MHz 4SMX
50/50/-10 to 60C/30 FUND
- Note: For other frequency/specification combinations please contact our sales offices

Compliance

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



Outline (mm)



Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1 760 318 2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com

Packaging Details

- Pack Style: Cutt Cut tape
 Pack Size: 100
- 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

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability (Min)	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	8.999999MHz	-10 to 60	±50	Fundamental	300
9.0MHz	9.999999MHz	-10 to 60	±50	Fundamental	200
10.0MHz	11.999999MHz	-10 to 60	±50	Fundamental	80
12.0MHz	15.999999MHz	-10 to 60	±50	Fundamental	60
16.0MHz	50.0MHz	-10 to 60	±50	Fundamental	40
50.0MHz	150.0MHz	-10 to 60	±50	3rd Overtone	80

*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.](#)*

Sales Office Contact Details:

UK: +44 (0)1460 270200

USA: +1 760 318 2824

Email: info@iqdfrequencyproducts.com

Web: www.iqdfrequencyproducts.com