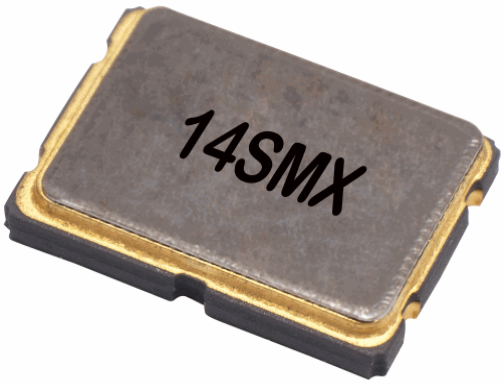
ISSUE 12; November 2023

Description

- 7 x 5mm SMD crystal Ceramic package with a seam sealed metal lid, hermetically sealed.
  Offers lower profile than the standard 12SMX.
  Offers tighter stability than the standard 12SMX.
  Please see our 12SMX part for standard stock items in this package type.



Frequency Parameters

Frequency	8.0MHz to 100.0MHz
Frequency Tolerance	±10.00ppm to ±100.00ppm
Frequency Stability	±5.00ppm to ±100.00ppm
Ageing	±5ppm max per year @ 25°C

Electrical Parameters

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

Operating Temperature Ranges

- 0 to 50°C
- -10 to 60°C
- -20 to 70°C
- -30 to 80°C
- -40 to 85°C

Environmental Parameters

- Storage Temperature Range: –40 to 85°C

Manufacturing Details

RoHS Terminations	NiAu
RoHS Reflow	260degC 10s

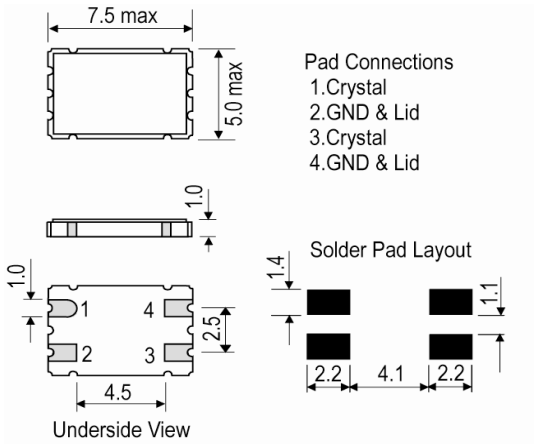
Ordering Information

- Frequency*
  Model*
  Frequency Tolerance (@25°C)*
  Frequency Stability (over operating temperature range)*
  Operating Temperature Range*
  Load Capacitance*
  Overtone*
- Example
  10.0MHz 14SMX
  50/50/–20 to 70C/10 FUND

Compliance

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

Outline (mm)



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Packaging Details

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

Electrical Specification - maximum limiting values

Frequency Min	Frequency Max	Temperature Range	Stability	Over Tone Order	ESR
		°C	ppm		Ω
8.0MHz	9.999999MHz	0 to 50	±5	Fundamental	60
		-10 to 60	±5		60
		-20 to 70	±5		60
		-30 to 80	±15		60
		-40 to 85	±20		60
10.0MHz	15.999999MHz	0 to 50	±5	Fundamental	50
		-10 to 60	±5		50
		-20 to 70	±5		50
		-30 to 80	±15		50
		-40 to 85	±20		50
16.0MHz	32.0MHz	0 to 50	±5	Fundamental	40
		-10 to 60	±5		40
		-20 to 70	±5		40
		-30 to 80	±15		40
		-40 to 85	±20		40
28.0MHz	83.999999MHz	0 to 50	±5	3rd Overtone	60
		-10 to 60	±5		60
		-20 to 70	±5		60
		-30 to 80	±15		60
		-40 to 85	±20		60
84.0MHz	100.0MHz	0 to 50	±5	5th Overtone	80
		-10 to 60	±5		80
		-20 to 70	±5		80
		-30 to 80	±15		80
		-40 to 85	±20		80

**Stability Maximum values ±100ppm*

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.

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