



ISSUE 12; February 2012 - RoHS 2011/65/EU

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 Range

- Frequency: 8.0 to 100.0MHz
- Frequency Tolerance: ±10ppm to ±100ppm

General Specification

- Load Capacitance (CL): 10.0pF to 75.0pF or Series
- Drive Level: 100µW max
- Ageing: ±5ppm max per year @ 25°C
- Shunt Capacitance (C0): 7pF max

Operating Temperature Ranges

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

Environmental Parameters

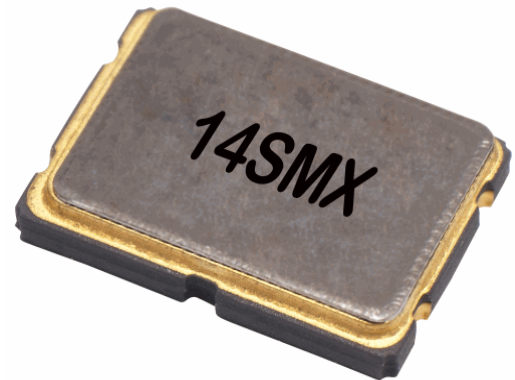
- Storage Temperature Range: -40 to 85°C

Ordering Information

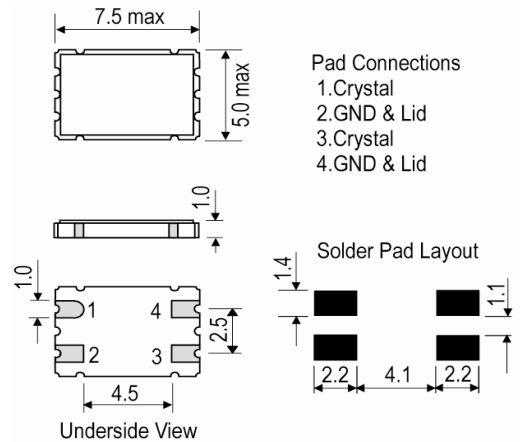
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example
- 10.0MHz 14SMX
- 50/50/-20 to 70C/10 FUND

Packing Details

- Pack Style: **Bulk** Loose in bulk pack
- Pack Size: 100
- Pack Style: **Reel** Tape and reel in accordance with EIA-481-D
- Pack Size: 1,000
- Alternative packing options available



Outline (mm)



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**Electrical Specification - maximum limiting values**

Frequency Range	Frequency Tolerance	Stability		Temperature Range	ESR Max	Vibration Mode
		Min	Max			
8.0 to <10.0MHz	±10 to ±100ppm	±5ppm ±5ppm ±5ppm ±15ppm ±20ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C	60Ω	Fundamental
10.0 to <16.0MHz	±10 to ±100ppm	±5ppm ±5ppm ±5ppm ±15ppm ±20ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C	50Ω	Fundamental
16.0 to <32.0MHz	±10 to ±100ppm	±5ppm ±5ppm ±5ppm ±15ppm ±20ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C	40Ω	Fundamental
28.0 to <84.0MHz	±10 to ±100ppm	±5ppm ±5ppm ±5ppm ±15ppm ±20ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C	60Ω	3RD Overtone
84.0 to <100.0MHz	±10 to ±100ppm	±5ppm ±5ppm ±5ppm ±15ppm ±20ppm	±100ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C	80Ω	5TH Overtone

This document was correct at the time of printing; please contact your local sales office for the latest version

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