

ISSUE 12; June 2016

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: $\pm 10.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Frequency Stability: $\pm 5.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- 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: 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

Ordering Information

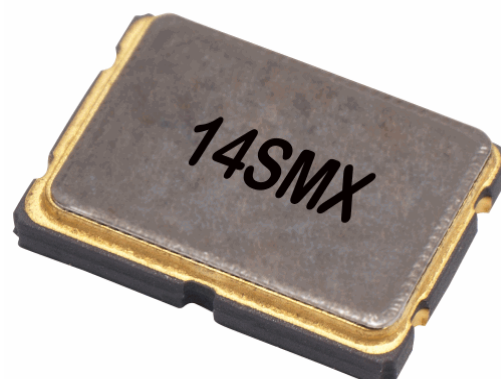
- Frequency*
- Model*
- Frequency Tolerance (@25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- Example
10.0MHz 14SMX
50/50/-20 to 70C/10 FUND

Compliance

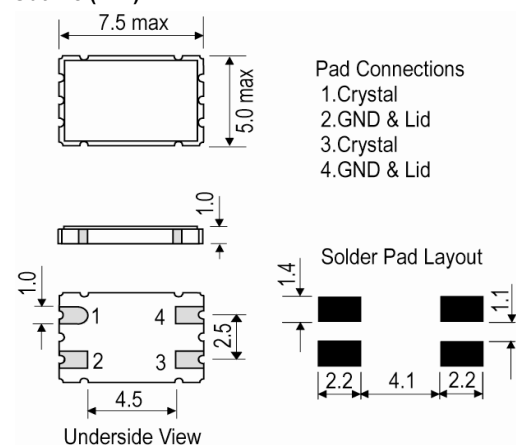
- RoHS Status (2011/65/EU): Compliant
- REACH Status: Compliant
- MSL Rating (JDEC-STD-033): Not Applicable

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: 1



Outline (mm)



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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 -10 to 60 -20 to 70 -30 to 80 -40 to 85	±5 ±5 ±5 ±15 ±20	Fundamental	60
10.0MHz	15.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85	±5 ±5 ±5 ±15 ±20	Fundamental	50
16.0MHz	32.0MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85	±5 ±5 ±5 ±15 ±20	Fundamental	40
28.0MHz	83.999999MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85	±5 ±5 ±5 ±15 ±20	3rd Overtone	60
84.0MHz	100.0MHz	0 to 50 -10 to 60 -20 to 70 -30 to 80 -40 to 85	±5 ±5 ±5 ±15 ±20	5th Overtone	80

*Stability Maximum values ±100ppm

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