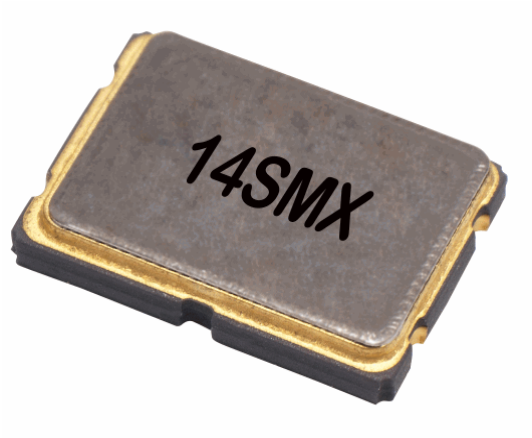
Quartz Crystal Specification
14SMX

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	±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

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

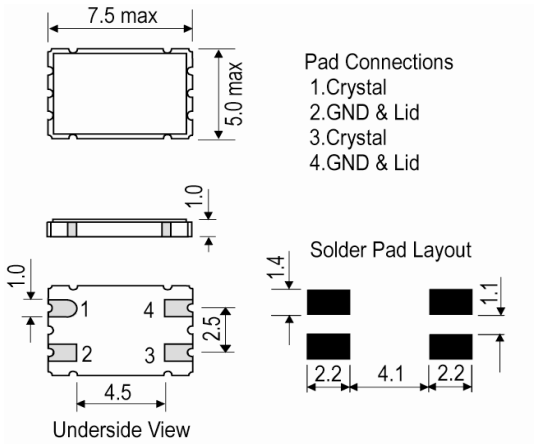
Compliance

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)



Sales Office Contact Details:

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

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

**Stability Maximum values ±100ppm*

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