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Description

- Similar, low cost drop on alternative to the 86SMX. Metal can package mounted on an SMD base. Resistance welded, hermetically sealed in an inert atmosphere, glass to metal seals on leads.

Frequency Range

- Frequency 3.2000 to 100.0Mhz
- Frequency Tolerance ±10ppm to ±100ppm

General Specification

- Load Capacitance (CL) 10.0pF to 75.0pF or Series
- Drive Level 500µW max
- Ageing ±5ppm typ per year @ 25°C
- Shunt Capacitance (C0) 7pF max

Operating Temperature Ranges

- 0 to 50°C
- 10 to 60°C
- 20 to 70°C
- 30 to 80°C
- 40 to 85°C
- 55 to 105°C

Environmental Parameters

- Shock: 981m/s², 6ms, 3 times in each of 3 mutually perpendicular planes
- Storage Temperature Range: -55 to 125°C
- Vibration: 10Hz-60Hz, 0.75mm amplitude, 60Hz-500Hz, 98.1m/s², 30mins in 3 mutually perpendicular planes

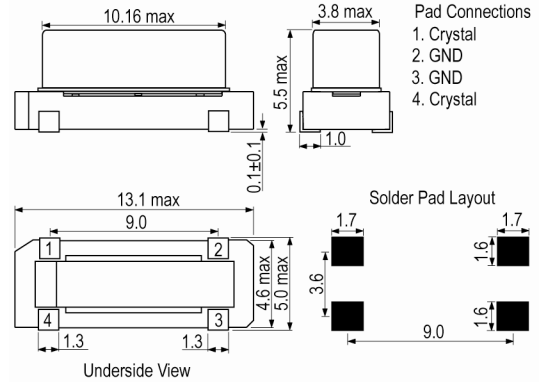
Ordering Information

- Example
10.0MHz 87SMX
50/50/-40 to 85C/10 FUND
- Frequency*
Model*
Frequency Tolerance (@ 25°C)*
Frequency Stability (over operating temperature range)*
Operating Temperature Range*
Load Capacitance*
Overtone*
(*minimum required)

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 @ 25°C ±2°C	Stability		Temperature Range	ESR Max	Vibration Mode
		Min	Max			
3.2 to <4.0MHz	±10ppm to ±100ppm	±15ppm ±20ppm ±20ppm ±25ppm ±30ppm ±100ppm	±500ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C -55 to 105°C	300Ω	Fundamental
4.0 to <5.5MHz	±10ppm to ±100ppm	±15ppm ±20ppm ±20ppm ±25ppm ±30ppm ±100ppm	±500ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C -55 to 105°C	130Ω	Fundamental
5.5 to <8.0MHz	±10ppm to ±100ppm	±15ppm ±20ppm ±20ppm ±25ppm ±30ppm ±100ppm	±500ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C -55 to 105°C	60Ω	Fundamental
8.0 to <40.0MHz	±10ppm to ±100ppm	±15ppm ±20ppm ±20ppm ±25ppm ±30ppm ±100ppm	±500ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C -55 to 105°C	40Ω	Fundamental
26.0 to <100.0MHz	±10ppm to ±100ppm	±15ppm ±20ppm ±20ppm ±25ppm ±50ppm ±100ppm	±500ppm	0 to 50°C -10 to 60°C -20 to 70°C -30 to 80°C -40 to 85°C -55 to 105°C	100Ω	3RD Overtone

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