

ISSUE 9; May 2018

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 Parameters

- Frequency: 3.01MHz to 100.0MHz
- Frequency Tolerance: $\pm 30.00\text{ppm}$ to $\pm 100.00\text{ppm}$
- Tolerance Condition: @ 25°C $\pm 2^\circ\text{C}$
- Frequency Stability: $\pm 50.00\text{ppm}$ to $\pm 500.00\text{ppm}$
- Ageing: $\pm 5\text{ppm}$ typ per year @ 25°C

Electrical Parameters

- Load Capacitance (CL): 10.0pF to 32.0pF
- Shunt Capacitance (C0): 7pF max
- Drive Level: 50 μW typ, 300 μW max

Operating Temperature Ranges

- 10 to 60°C

Environmental Parameters

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

Manufacturing Details

- Please note that this part is NOT suitable for inverted reflow process. Please contact our application support team if this is necessary.
- RoHS Terminations: SnAgCu
- RoHS Reflow: 260degC 10s

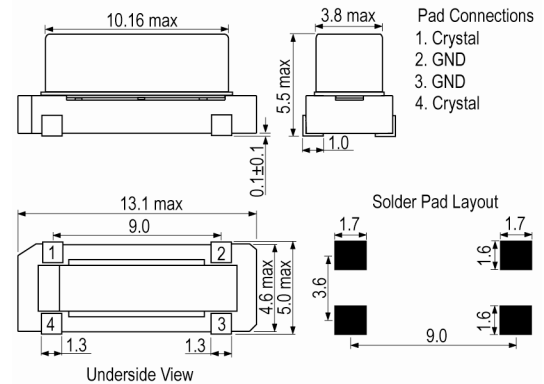
Ordering Information

- Frequency*
- Model*
- Frequency Tolerance (@ 25°C)*
- Frequency Stability (over operating temperature range)*
- Operating Temperature Range*
- Load Capacitance*
- Overtone*
- (*minimum required)
- Example
10.0MHz 87SMX 50/50/-10 to 60C/12 FUND

Compliance

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

Outline (mm)



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Packaging Details

- 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 (Min)	Over Tone Order	ESR
		°C	ppm		Ω
3.01MHz	3.499999MHz	-10 to 60	±50	Fundamental	300
3.5MHz	3.999999MHz	-10 to 60	±50	Fundamental	150
4.0MHz	4.499999MHz	-10 to 60	±50	Fundamental	130
4.5MHz	4.999999MHz	-10 to 60	±50	Fundamental	110
5.0MHz	5.999999MHz	-10 to 60	±50	Fundamental	80
6.0MHz	6.999999MHz	-10 to 60	±50	Fundamental	60
7.0MHz	9.999999MHz	-10 to 60	±50	Fundamental	50
10.0MHz	12.999999MHz	-10 to 60	±50	Fundamental	40
13.0MHz	50.0MHz	-10 to 60	±50	Fundamental	30
26.0MHz	100.0MHz	-10 to 60	±50	3OT	100

*Stability Maximum values ±500ppm

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