

1008 SMX-4 Series

1.0 x 0.8mm Crystal unit



RoHS & REACH compliant
Ultra miniature SMD 4 pad crystal
Ultra thin package 0.3mm



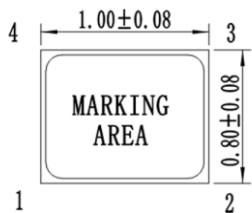
Parameters	Specification	Remarks
Frequency range	F_nom 40.0MHz ~ 96.0MHz	Fundamental
Frequency tolerance	F_tol ±10.0ppm	
Frequency stability over operating temperature range	F_stb ±10.0ppm	
Operating temperature range	T_use -30°C ~ +85°C	Storage temp: -40°C ~ +85°C
Load capacitance	CL 6.0pF ~ 16.0pF	
Equivalent series resistance	ESR Table 1	
Shunt capacitance	C0 2.0pF max	
Drive level	DL 10µW typ.	1~100µW
Frequency aging	F_age ±3.0ppm	Per Year Max
Insulation resistance	IR 500MΩ min	@ 100V DC

Table 1. Frequency range (MHz) vs ESR max

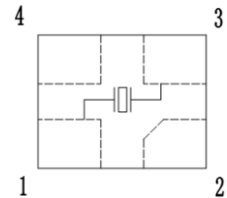
40.0MHz ~ 60.000MHz	60Ω
60.1MHz ~ 76.800MHz	50Ω
76.9MHz ~ 96.000MHz	30Ω

Dimensions (mm)

Unit: (mm)

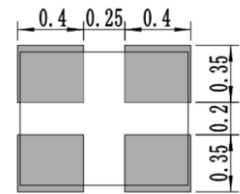
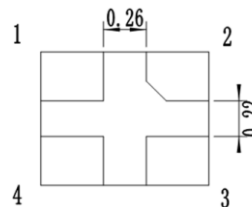


Pin Connection
(Top View)



Recommended PAD Layout

Note: #4 is connected to Lid.



Part number generation

CAX	4000	E	F	L	GO	F	L	-PF
ACT Series Code	Frequency (MHz)	Frequency Tolerance (±ppm)	Frequency stability over temperature range (±ppm)	Operating Temperature Range (°C)	Load capacitance (CL -pF)	Frequency mode	Packaging (Tape & Reel)	RoHS
CAX	40MHz = 4000 59.97MHz =5997 Note: Use the first 4 characters of the frequency in Hz i.e. 50MHz =50000000Hz part code =5000	±10 = E	±10 = F	-30 ~ +85 = L	6 = BO 7 = DO 8 = GO 9 = JO 10 = KO 11 = MO 12 = OO 13 = YO 14 = ZO 15 = PO 16 = RO	Fundamental = F	Loose = L 3000pcs = D	RoHS = -PF

Note: It is important to suffix the above part number with full frequency required to give a completed part number as illustrated below.
Full Example Part Number : CAX4000EFLGOL-PF [40.000MHz]; CAX5000EFLGOL-PF [50.000MHz];

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ISO9001 Registered

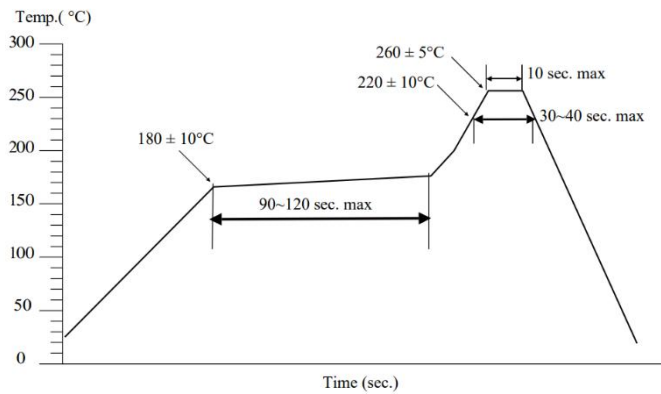
Specifications subject to change without notification

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Solder Reflow Profile



Drawing control: (Internal use only)
Commodity code: 854160 00 00
Issue number: N1
Date: 03/12/2025
Internal reference: H2