



MHz RANGE CRYSTAL UNIT

FA1008AN



Product Number
FA1008AN: X1E000451xxxx26

- Nominal frequency range : 40 MHz to 100 MHz
- External dimensions : 1.0 x 0.8 mm, t = 0.3 mm Max.
- Overtone order : Fundamental
- Applications : Small wireless device
Small wireless module
Wearable device
Health care equipment
Small consumer equipment etc.



FA1008AN

(1.0 x 0.8 mm, t = 0.3 mm Max.)

Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Nominal frequency range	f_nom	40 MHz to 100 MHz	
		59.97 MHz	Standard frequency
Storage temperature range	T_stg	-40 °C to +125 °C	Storage as single product.
Operating temperature range	T_use	-40 °C to +85 °C (+105 °C)	Please contact us about +85 °C < T_use
Level of drive	DL	100 μW Max.	Recommended: 10 μW
Frequency tolerance (standard)	f_tol	±10 x 10 ⁻⁶	+25 °C, Please contact us for requirements not listed in this specification.
Frequency versus temperature characteristics. (standard)	f_tem	±10 x 10 ⁻⁶ / -20 °C to +75 °C	Specify from the specifications on the left Please contact us for requirements not listed in this specification.
		±15 x 10 ⁻⁶ / -30 °C to +85 °C	
		±20 x 10 ⁻⁶ / -40 °C to +85 °C	
Load capacitance	CL	6 pF to ∞	Please specify.
Motional resistance (ESR)	R1	60 Ω Max.	DL = 10 μW
Frequency aging	f_age	±1 x 10 ⁻⁶ / year Max. (40 ≤ f ≤ 60 MHz) ±3 x 10 ⁻⁶ / year Max. (60 < f ≤ 100 MHz)	+25 °C, First year

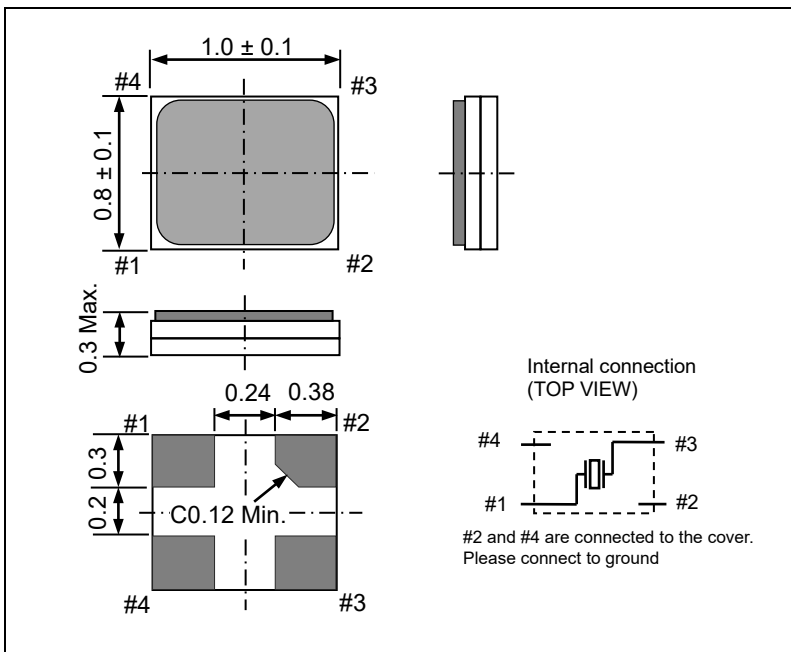
Product name FA1008AN 59.970000MHz 12.0 +10.0-10.0
(Standard form) ① ② ③ ④

①Model ②Frequency ③Load capacitance (pF) ④Frequency tolerance (× 10⁻⁶, +25 °C)

In addition to the mentioned above specification item, please specify frequency temperature characteristics and operating temperature range in case of inquiry.

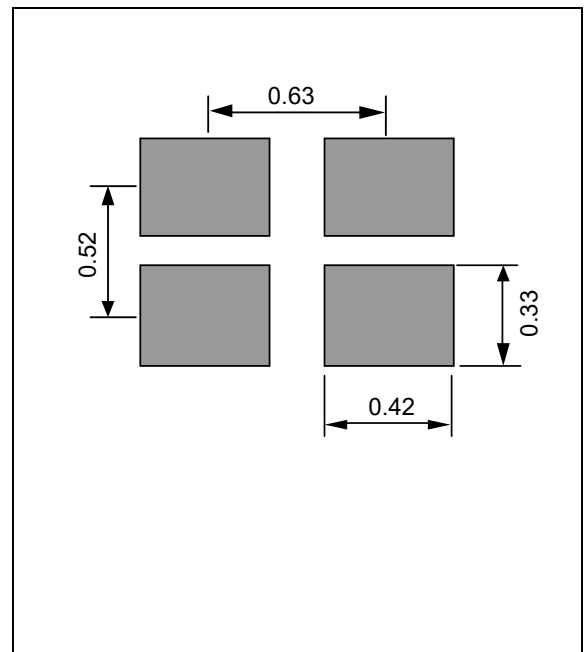
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs, Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired IATF 16949 certification that is requested strongly by major automotive manufacturers as standard.

IATF 16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

► Explanation of the mark that are using it for the catalog

	► Pb free.
	► Complies with EU RoHS directive. *About the products without the Pb-free mark. Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)
	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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