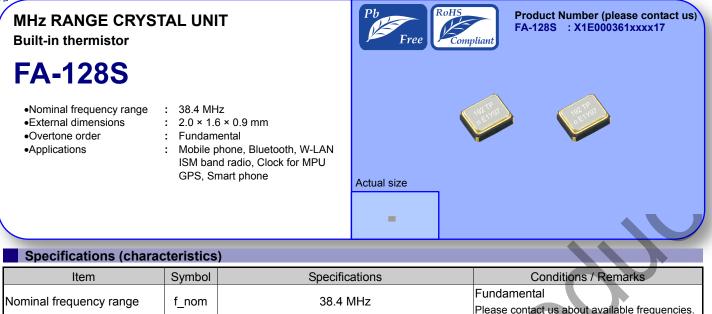


SEIKO EPSON CORPORATION



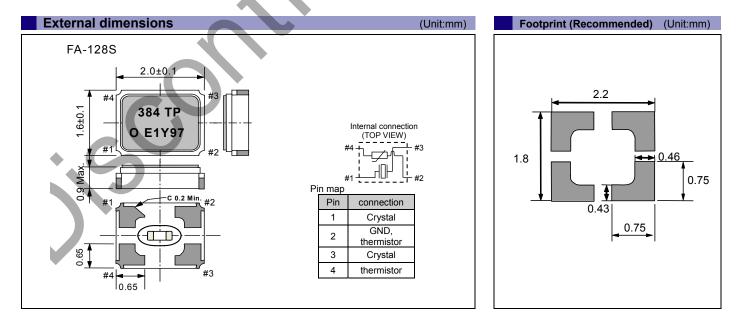
Norminal frequency range	1_110111	30.4 WHZ	Please contact us about available frequencies.
Storage temperature range	T_stg	-40 °C to +125 °C	Storage as single product.
Operating temperature range	T_use	-40 °C to +85 °C	
Level of drive	DL	100 μW Max.	Recommended: 1 to 100 µW
Frequency tolerance	f_tol	$+10 \times 10^{-6} *1$	Please contact us about reference temperature.
			Please contact us for inquiries.
Frequency versus	f_tem	$\pm 12 imes 10^{-6}$ *1	-30 °C to +85 °C
temperature characteristics			Please contact us for inquiries.
Load capacitance	CL	6 pF to ∞	Please specify.
Motional resistance (ESR)	R1	60 Ω Max.	-30 °C to +85 °C
Frequency aging	f_age	\pm 1 $ imes$ 10 ⁻⁶ / year Max.	+25 °C, First year
Thermistor resistance	_	Please contact us about specifications.	
Thermistor B constant	_		

*1 Please contact us for available frequency tolerances as they are dependent upon the nominal frequency.

Product name (Standard form) FA-128S 38.400000MHz 7.0 +10.0-10.0 1 2

3 (4)

④Frequency tolerance(× 10⁻⁶, +25 °C) Model ②Frequency ③Load capacitance(pF) In addition to the above mentioned specification item, please specify frequency temperature characteristics and operating temperature range in case of inquiry.



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.

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 ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

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.

ISO/TS16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

Pb Free	► Pb free.
RoHS_	► Complies with EU RoHS directive.
Compliant	*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.)
For Automotive	 Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
Automotive safety	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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