



## MHz RANGE CRYSTAL UNIT

## FA1210AN

Product Number  
FA1210AN: X1E000411xxxx26

- Nominal frequency range : 32 MHz to 100 MHz
- External dimensions : 1.2 x 1.0 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.



FA1210AN

( 1.2 x 1.0 mm t = 0.3 mm Max. )

## Specifications (characteristics)

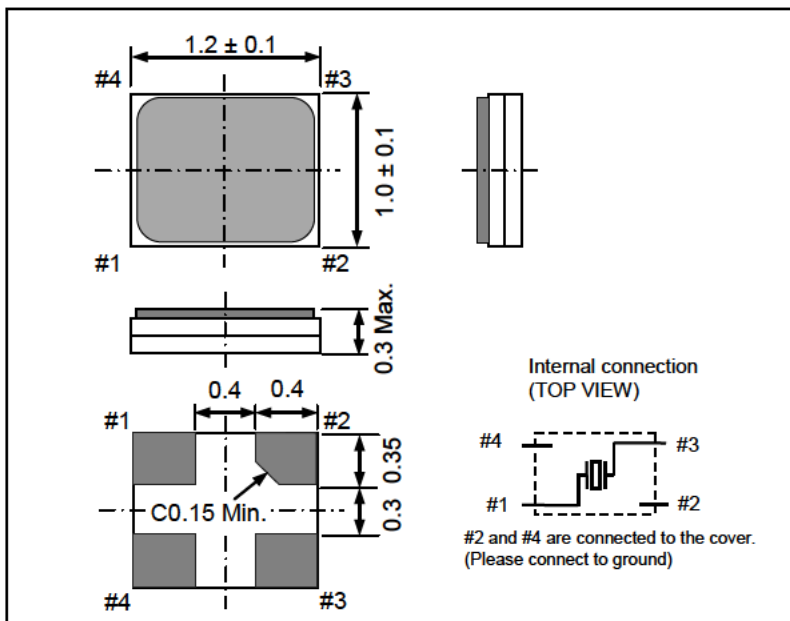
Item	Symbol	Specifications	Conditions / Remarks
Nominal frequency range	f_nom	32 MHz to 100 MHz	
		32 , 37.4 MHz	Standard frequency
Storage temperature range	T_stg	-40 °C to +125 °C	Storage as single product.
Operating temperature range	T_use	-40 °C to +85 °C (+105 °C)	Please contact us about +85 °C < T_use
Level of drive	DL	100 μW Max.	Recommended: 10 μW
Frequency tolerance (standard)	f_tol	±10 x 10 <sup>-6</sup>	+25 °C, Please contact us for requirements not listed in this specification.
Frequency versus temperature characteristics. (standard)	f_tem	±10 x 10 <sup>-6</sup> / -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 <sup>-6</sup> / -30 °C to +85 °C	
		±20 x 10 <sup>-6</sup> / -40 °C to +85 °C	
Load capacitance	CL	6 pF to ∞	Please specify.
Motional resistance (ESR)	R1	100 Ω Max. (32 MHz) 60 Ω Max. (37.4 MHz)	-40 °C to +85 °C , DL = 10 μW
Frequency aging	f_age	±1 x 10 <sup>-6</sup> / year Max. (32 ≤ f ≤ 60 MHz) ±3 x 10 <sup>-6</sup> / year Max. (60 < f ≤ 100 MHz)	+25 °C, First year

Product name FA1210AN 32.000000MHz 12.0 +10.0-10.0  
(Standard form) ① ② ③ ④① Model ② Frequency ③ Load capacitance(pF) ④ Frequency tolerance(× 10<sup>-6</sup>, +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)

