MHz RANGE CRYSTAL UNIT
Built-in thermistor

Product Number
FA1612AS: X1E000401xxxx18

FA1612AS

- •Nominal frequency range : 38.4 MHz, 52MHz
- •External dimensions : 1.6 × 1.2 × 0.65 mm
- •Overtone order : Fundamental
- •Applications : Mobile phone, Bluetooth, W-LAN ISM band radio, Clock for MPU GPS, Smart phone



Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Nominal frequency range	f_nom	38.4 MHz, 52 MHz	Fundamental 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: 10 μW
Frequency tolerance	f_tol	±10 × 10^{-6} *1	Please contact us about reference temperature. Please contact us for inquiries.
Frequency versus temperature characteristics	f_tem	±12 × 10^{-6} *1	-30 °C to +85 °C Please contact us for inquiries.
Load capacitance	CL	6 pF to ∞	Please specify.
Motional resistance (ESR)	R1	50 Ω Max. (38.4 MHz) 30 Ω Max. (52 MHz)	-30 °C to +85 °C
Frequency aging	f_age	±1 × 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

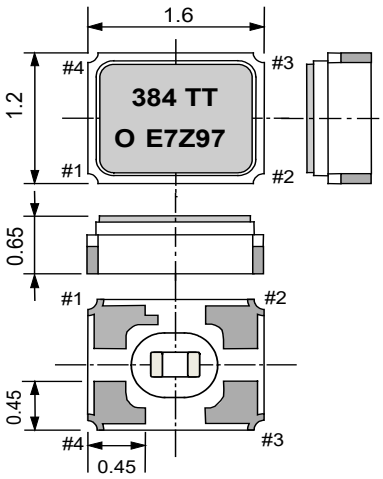
Product name (Standard form)

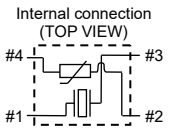
FA1612AS ① 38.400000MHz ② 7.0 ③ +10.0-10.0 ④

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

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

External dimensions (Unit:mm)

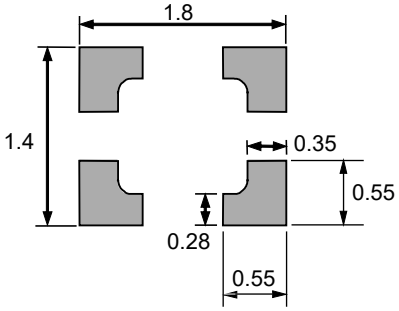




Pin map

Pin	connection
1	Crystal
2	GND, thermistor
3	Crystal
4	thermistor

Footprint (Recommended) (Unit:mm)



►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 general equipment.
	►Designed for automotive applications related to driving and safety.

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