

MHz RANGE CRYSTAL UNIT

Built-in thermistor For Automotive







Product Number FA2016ASA: X1E000431xxxx16

FA2016ASA

Nominal frequency range
External dimensions
Overtone order
38.4 MHz, 55.2 MHz
2.0 × 1.6 × 0.68 mm
Fundamental

•Applications : GPS module, Telematics module

Car navigation system, Electronic Key System

etc

•AEC-Q200 compliant



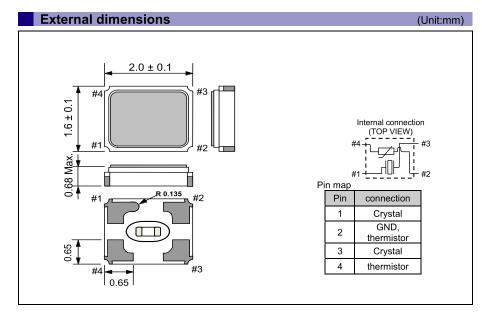
Specifications (characteristics)

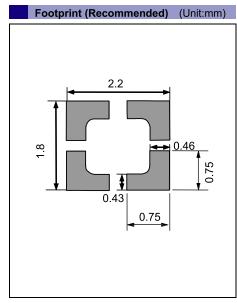
Item	Symbol	Specifications		Conditions / Remarks
Nominal frequency range	f_nom	38.4 MHz	55.2 MHz	Fundamental
				Please contact us about available frequencies.
Storage temperature range	T_stg	-40 °C to +125 °C		Storage as single product.
Operating temperature range	T_use	-40 °C to +105 °C		
Level of drive	DL	200 μW Max.		Recommended: 1 μW to 100 μW
Frequency tolerance	f_tol	±10 x 10 ⁻⁶		+25 °C
				Please contact us for inquiries.
Frequency versus temperature characteristics	f_tem	±12 x 10 ⁻⁶	-	-30 °C to +85 °C
				Please contact us for inquiries.
		±30 x 10 ⁻⁶	±20 x 10 ⁻⁶	-40 °C to +105 °C
				Please contact us for inquiries.
Load capacitance	CL	6 pF to ∞		Please specify.
Motional resistance (ESR)	R1	50 Ω Max.		-40 °C to +105 °C
Frequency aging	f_age	±1 x 10 ⁻⁶ / year Max.	±2 x 10 ⁻⁶ / year Max.	+25 °C, First year
Thermistor resistance	R25°C	100 kΩ Typ.	10 kΩ Typ.	Zero load resistance value at +25 °C
Thermistor B constant	B25/50°C	4 250 K Typ.	-	Calculated zero load resistance value
				at +25 °C to +50 °C
	B25/85°C	-	3 435 K Typ.	Calculated zero load resistance value
				at +25 °C to +85 °C

Product name

Product name (Standard form)

a: Model b: Frequency c: Load capacitance(pF) d: Frequency 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.





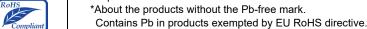
Explanation of the mark that are using it for the catalog



▶Pb free.



▶ Complies with 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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