

MHz RANGE CRYSTAL UNIT

ULTRA MINIATURE SIZE LOW PROFILE SMD

FA - 118T

- Nominal frequency range : 24 MHz to 54 MHz
- External dimensions : 1.6 × 1.2 × 0.35 mm (t: Max.)
- Overtone order : Fundamental
- Applications : Mobile phone, Bluetooth, W-LAN
ISM band radio. Clock for MPU



Product Number (please contact us)
FA-118T : X1E000251xxxx00



Actual size

Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks
		For RF Reference	For Clock	
Nominal frequency range	f_nom	24.000 MHz to 54.000 MHz		Fundamental Please contact us for inquiries regarding the available frequencies.
Storage temperature range	T_stg	-40 °C to +125 °C		Store as bare product.
Operating temperature range	T_use	-40 °C to +85 °C		
Level of drive	DL	100 μW Max.	200 μW Max.	Recommended: 1 μW to 100 μW
Frequency tolerance (standard)	f_tol	±10 × 10 ⁻⁶ *1	±30 × 10 ⁻⁶	+25 °C For the out of standard specifications, please contact us for inquiries.
Frequency versus temperature characteristics (standard)	f_tem	±12 × 10 ⁻⁶ *1	±30 × 10 ⁻⁶	-20 °C to +75 °C For the out of standard specifications, please contact us for inquiries.
Load capacitance	CL	6 pF to ∞		Please specify.
Motional resistance (ESR)	R1	As per below table		-20 °C to +75 °C
Frequency aging	f_age	±1 × 10 ⁻⁶ / year Max.	±5 × 10 ⁻⁶ / year Max.	+25 °C, First year

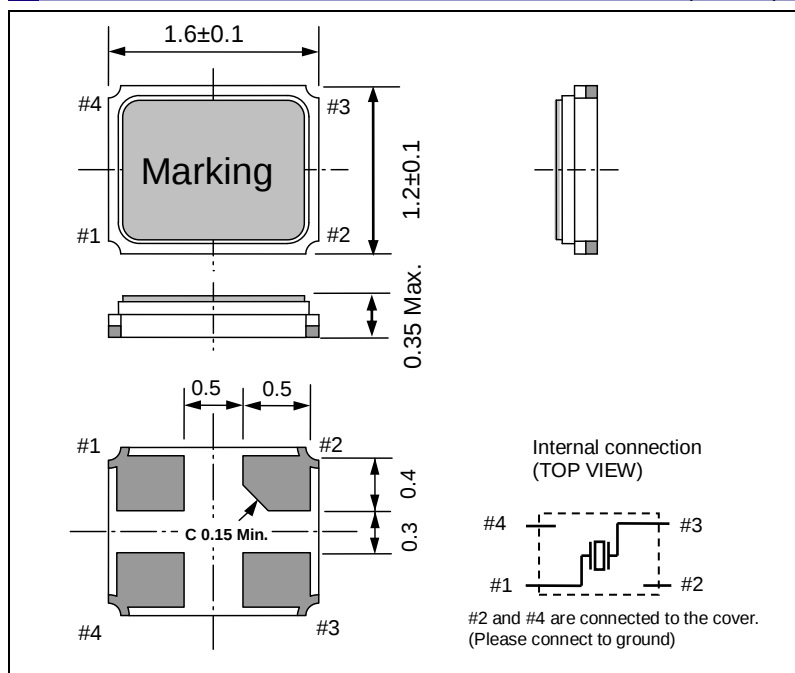
*1 Please contact us for inquiries regarding available frequency tolerance.

Motional resistance (ESR)

Frequency	Motional resistance
$24.0 \text{ MHz} \leq f_{\text{nom}} < 32.0 \text{ MHz}$	200 Ω Max.
$32.0 \text{ MHz} \leq f_{\text{nom}} < 36.0 \text{ MHz}$	100 Ω Max.
$36.0 \text{ MHz} \leq f_{\text{nom}} \leq 54.0 \text{ MHz}$	80 Ω Max.

External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)

