



MHz RANGE CRYSTAL UNIT

FA-118T

Product Number
FA-118T : X1E000251xxxx26

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



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 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.	200 μW Max.	Recommended: 1 μW to 100 μW
Frequency tolerance (standard)	f_tol	±10 × 10 ⁻⁶ *1	±30 × 10 ⁻⁶	+25 °C, please contact us for requirements not listed in this specification.
Frequency versus temperature characteristics. (standard)	f_tem	±12 × 10 ⁻⁶ *1	±30 × 10 ⁻⁶	-20 °C to +75 °C, please contact us for requirements not listed in this specification.
Load capacitance	CL	6 pF to ∞		Please specify.
Motional resistance (ESR)	R1	As per table below		-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 available frequency tolerances as they are dependent upon the nominal frequency.

Motional resistance (ESR)

Frequency	Motional resistance
24.0 MHz ≤ f_nom < 32.0 MHz	200 Ω Max.
32.0 MHz ≤ f_nom < 36.0 MHz	100 Ω Max.
36.0 MHz ≤ f_nom ≤ 54.0 MHz	80 Ω Max.

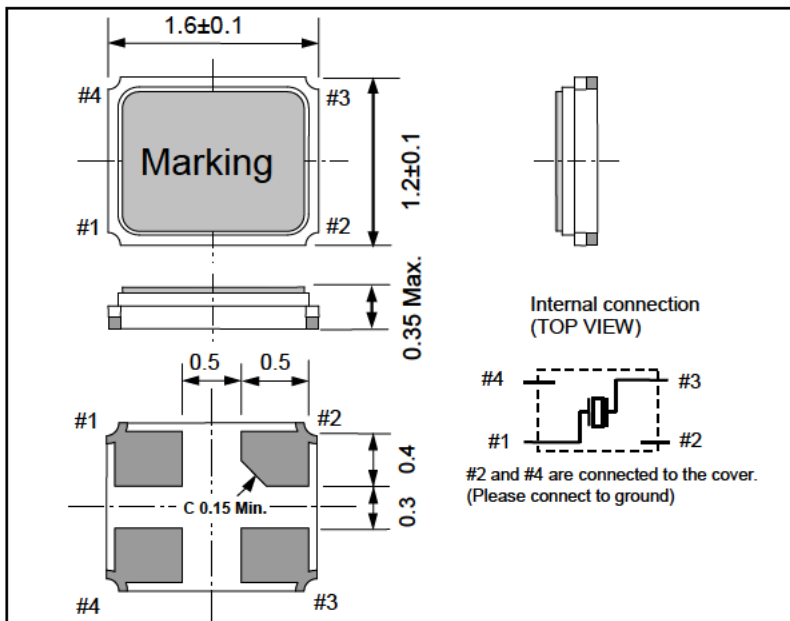
Product name FA-118T 24.000000MHz 12.0 +10.0-10.0
(Standard form) ① ② ③ ④

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.

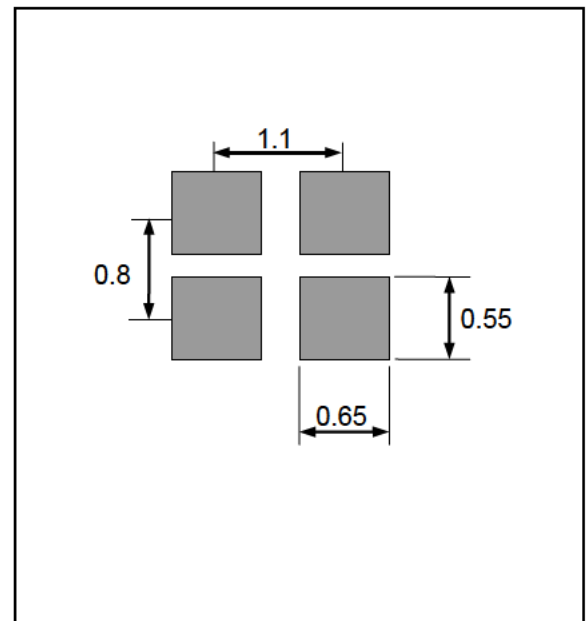
External dimensions

(Unit:mm)



Footprint (Recommended)

(Unit:mm)



Mouser Electronics

Authorized Distributor

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Epson:

[FA-118T 26.0000MF12Z-AC3](#) [FA-118T 52.0000ME12Z-AC3](#) [FA-118T 37.4000MF10Y-W3](#) [FA-118T 37.4000MF10P-B3](#) [FA-118T 50.0000MD20X-WX](#) [FA-118T 50.0000MD30X-AJ](#) [FA-118T 50.0000MD30X-AJX](#) [FA-118T 50.0000MF15X-WX](#) [FA-118T 38.40M-A0AAAAN60RE8](#) [FA-118T 38.40M-A0AAFFN60RE3](#) [FA-118T 38.40M-A0AAFFN60RE8](#) [FA-118T 48.0000MF20X-AJX](#) [FA-118T 48.00M-60AANNG80REB](#) [FA-118T 48.00M-60AANNG80REX](#) [FA-118T 37.4000MF10Y-VHX](#) [FA-118T 37.4000MU10Y-BX](#) [FA-118T 38.4000MF10Z-GX](#) [FA-118T 38.40M-80AAZZb40RGX](#) [FA-118T 38.40M-80NNNNG80REX](#) [FA-118T 38.40M-A0AAAAN60RE3](#) [FA-118T 32.0000MF10Z-AGX](#) [FA-118T 32.0000MF10Z-AJX](#) [FA-118T 32.00M-60AAAAN60RE3](#) [FA-118T 32.00M-60AACCUA0REX](#) [FA-118T 32.00M-A0AACCUA0REB](#) [FA-118T 37.4000MF10Y-BX](#) [FA-118T 24.00M-N0YYYYUB0REB](#) [FA-118T 25.0000MF15Y-AJX](#) [FA-118T 32.0000MA20X-AJX](#) [FA-118T 32.0000MA20Z-AJ8](#) [FA-118T 32.0000MA20Z-AJX](#) [FA-118T 32.0000MF10Z-ACX](#) [FA-118T 24.0000MF20X-AJX](#) [FA-118T 24.00M-C0AAAAU60RE0](#) [FA-118T 24.00M-C0AAAAU60RE3](#) [FA-118T 24.00M-C0AAAAU60REB](#) [FA-118T 24.00M-N0YYYYUB0RE0](#) [FA-118T 24.00M-N0YYYYUB0RE3](#) [FA-118T 27.1200MD50Z-K3](#) [FA-118T 30.0000MA20Z-AJ](#) [FA-118T 32.0000MF10Z-AJ](#) [FA-118T 32.0000MF12Z-AC](#) [FA-118T 37.4000MF10Y-W5](#) [FA-118T 24.0000MD30V-AJ](#) [FA-118T 24.0000MD30V-AJ0](#) [FA-118T 24.0000MF10Z-W](#) [FA-118T 24.0000MF10Z-W0](#) [FA-118T 25.0000MD30Z-AC3](#) [FA-118T 25.0000MD30Z-AC5](#) [FA-118T 24.0000MD30Z-AL](#) [FA-118T 25.0000MF15Y-AJ0](#) [FA-118T 32.0000MA20Z-AJ](#) [FA-118T 50.0000MD30X-AJ0](#) [FA-118T24.0000MD30V-AJ3](#) [FA-118T24.0000MF10Z-W3](#) [FA-118T24.0000MF20X-AJ](#) [FA-118T25.0000MD30Z-AC](#) [FA-118T32.0000MA20X-AJ3](#) [FA-118T32.0000MA20Z-AJ0](#) [FA-118T32.0000MA20Z-AJ3](#) [FA-118T32.0000MA20Z-AJ5](#) [FA-118T32.0000MA30X-K](#) [FA-118T32.0000MA30X-K3](#) [FA-118T32.0000MF10Z-AC](#) [FA-118T32.0000MF10Z-AG0](#) [FA-118T32.0000MF10Z-AG3](#) [FA-118T32.0000MF10Z-AJ0](#) [FA-118T32.0000MF10Z-AJ3](#) [FA-118T37.4000MU10Y-B3](#) [FA-118T37.4000MU10Y-W](#) [FA-118T37.4000MU10Y-W3](#) [FA-118T40.0000MF10P-K](#) [FA-118T40.0000MF10Z-K](#) [FA-118T48.0000MD30Z-K](#) [FA-118T48.0000MD30Z-K0](#) [FA-118T48.0000MD30Z-K3](#) [FA-118T48.0000ME19X-AJ](#) [FA-118T48.0000MF20X-AJ](#) [FA-118T48.0000MF20X-AJ5](#) [FA-118T52.0000ME12Z-AC](#) [FA-118T25.0000MF10Z-AC](#) [FA-118T26.0000MF10Y-W](#) [FA-118T26.0000MF10Z-AJ](#) [FA-118T26.0000MF12Z-AC](#) [FA-118T26.0000MF20X-AJ](#) [FA-118T26.00M-C0AAAAANA5REX](#) [FA-118T27.1200MD50Z-K](#) [FA-118T32.0000MF10Z-AJ5](#) [FA-118T32.0000MF29G-AJ](#) [FA-118T32.0000MF29G-AJ0](#) [FA-118T32.0000MF29G-AJ3](#) [FA-118T32.00M-60AAAAUA0REX](#) [FA-118T32.00M-60AACCUA0REB](#) [FA-118T32.00M-C095NNHA0REB](#) [FA-118T32.00M-C0AANNHA0REB](#) [FA-118T37.4000MF10P-B](#) [FA-118T37.4000MF10P-K](#) [FA-118T37.4000MF10V-B](#) [FA-118T37.4000MF10Y-B](#) [FA-118T37.4000MF10Y-W](#)