MHz RANGE CRYSTAL UNIT

FA-128

Nominal frequency range
 External dimensions
 Overtone order
 16 MHz to 54 MHz
 2.0 x 1.6 x 0.5 mm
 Fundamental

Mobile phone, Bluetooth, W-LAN
 Mobile phone, W-LAN
 Mob

ISM band radio, Clock for MPU



Specifications (characteristics)

ltem	Symbol	Specifications		Conditions / Remarks
		For RF Reference	For Clock	Conditions / Remarks
Nominal frequency range	f_nom	16.000 MHz to 54.000 MHz		Fundamental
Tronina iroquorioy fungo				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 to 100 μW
Frequency tolerance	f_tol	±10 × 10 ⁻⁶ *1	±30 × 10 ⁻⁶	+25 °C, Please contact us for requirements
(standard)				not listed in this specifications.
Frequency versus				-20 °C to +75 °C, Please contact us for
temperature characteristics	f_tem	±10 × 10 ⁻⁶ *1	$\pm 30 \times 10^{-6}$	requirements not listed in this specifications.
(standard)				requirements not listed in this specifications.
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	$\pm 1 \times 10^{-6}$ / year Max.	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, First year

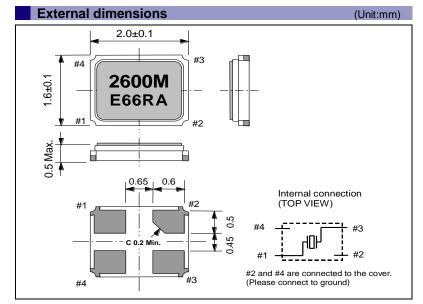
^{*1} Please contact us for available frequency tolerances as they are dependent upon the nominal frequency.

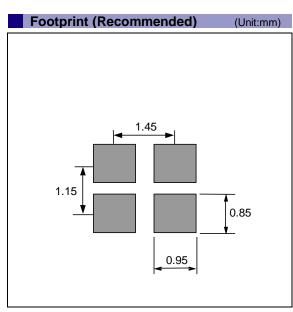
Motional resistance (ESR)

Frequency	Motional resistance	
16.0 MHz ≤ f_nom < 18.0 MHz	200 Ω Max.	
18.0 MHz ≤ f_nom < 20.0 MHz	150 Ω Max.	
20.0 MHz ≤ f_nom < 24.0 MHz	100 Ω Max.	
24.0 MHz ≤ f_nom < 26.0 MHz	80 Ω Max.	
$26.0 \text{ MHz} \leq f_\text{nom} \leq 54.0 \text{ MHz}$	60 Ω Max.	

Product name (Standard form)

①Model ②Frequency ③Load capacitance(pF) ④Frequency tolerance(x 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.





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Epson:

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31.2500MF20X-K0 FA-128 32.0000MD30Z-C3 FA-128 32.0000MF10Z-W3 FA-128 40.0000MB30Z-AJ3 FA-128
40.0000MF10Z-K3 FA-128 40.0000MF20X-K0 FA-128 48.0000MB30Z-AJ3 FA-128 48.0000MD20X-B FA-128
48.0000MF20X-K