

MHz RANGE CRYSTAL UNIT

FA-128

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

•Applications : Mobile phone, Bluetooth, W-LAN

ISM band radio, Clock for MPU





Product Number Q22FA1280xxxx18







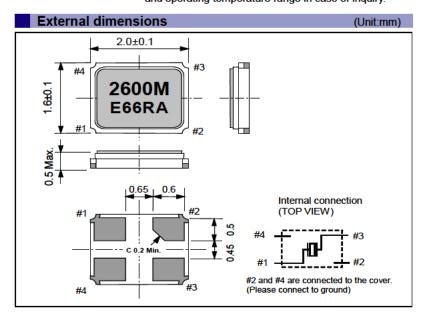
Specifications (characteristics)

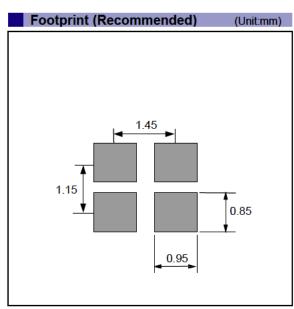
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Item	Symbol	Specifications		Conditions / Remarks		
		For RF Reference	For Clock	Conditions / Remarks		
Nominal frequency range	f_nom	16.000 MHz to 54.000 MHz		Fundamental		
				Please contact us about available frequencies.		
Storage temperature range	T_stg	-40 °C to +125 °C		Storage as single product.		
Operating temperature range	T_use	-40 °C to +85 °C (+105 °C)		Please contact us about +85 C < T_use		
Level of drive	DL	100 μW Max.	200 μW Max.	Recommended: 1 to 100 μW		
Frequency tolerance	£ 4-1	±10 × 10 ⁻⁶ *1	±30 × 10 ⁻⁶	+25 °C, please contact us for requirements		
(standard)	f_tol			not listed in this specification.		
Frequency versus				20 °C to 175 °C places contact up for		
temperature characteristics.	f_tem	±10 × 10 ⁻⁶ *1	$\pm 30 \times 10^{-6}$	-20 °C to +75 °C, please contact us for		
(standard)				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	$\pm 1 \times 10^{-6}$ / 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.	
$26.0 \text{ MHz} \leq f_{nom} \leq 54.0 \text{ MHz}$	60 Ω Max.	





Mouser Electronics

Authorized Distributor

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Epson:

FA-128 32.0000MF20X-K3 FA-128 48.0000MF20X-K0 FA-128 24.0000MF10Z-W3 FA-128 25.0000MF10Z-AC FA-128 25.0000MF20X-K0 FA-128 26.0000MF10Z-AC3 FA-128 26.0000MF10Z-W FA-128 26.0000MF10Z-W3 FA-128 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 FA-128 32.0000MF09Z-AC3 FA-128 26.0000MF10Z-E3 FA-128 32.0000MF10Z-AJ3 FA-128S 19.2000MF12Y-AG3 FA-128 16.0000MF20X-AJ FA-128 16.0000MF20X-AJ3 FA-128 25.0000MD20X-E3 FA-128 16.0000MF20X-AJ0 FA-128 25.0000MF10Z-AC3 FA-128 30.0000MF20X-AC FA-128 32.0000MF10Z-AJ5 FA-128 32.0000MF20X-K FA-128 25.0000MF10Z-K FA-128 25.0000MF10Z-K3 FA-128 32.0000MA20Z-K FA-128 32.0000MF10Z-AJ0 FA-128 24.0000MB-W FA-128 24.0000MB-W0 FA-128 24.0000MA25V-AJ FA-128 16.0000MF10Z-W FA-128 16.0000MF10Z-K FA-128 24.0000MD30X-K FA-128 24.0000MF10Z-W0 FA-128 27.1200MD30Z-K FA-128 27.1200MF10Z-K0 FA-128 24.0000MF10Z-K FA-128 24.0000MF10Z-W5 FA-128 27.1200MD30Y-E FA-128 27.1200MF10Z-K FA-128 27.1200MF10Z-K3 FA-128 32.0000MF20X-K5 FA-128 26.0000MF10Z-AC FA-128 27.1200MD30Z-K5 FA-128 27.1200MF20X-K3 FA-128 32.0000MF10Z-AG FA-128 32.0000MF10Z-K5 FA-128 32.0000MF20X-K0 FA-128 27.1200ME15X-AJ3 FA-128 38.4000MF10Z-K FA-128 25.0000MF20X-K FA-128 25.0000MF20X-W3 FA-128 32.0000MF20X-W FA-128 24.0000MD30Z-C FA-128 32.0000MF20X-AJ FA-128 32.0000MF20X-AJ3 FA-128 32.0000MF20X-AJ5 FA-128 38.4000MF10Z-K3 FA-128 24.0000MF10Z-AC FA-128 25.0000MD30X-C FA-128 38.4000MF10Z-K0 FA-128 48.0000MF20X-K3 FA-128 16.0000MF10Z-AC3 FA-128 27.1200ME15P-AJ0 FA-128 27.1200ME15R-AJ FA-128 32.0000MF10Z-W FA-128 32.0000MF10Z-AJ FA-128 24.0000ME20X-K FA-128 24.0000ME20X-K5 FA-128 26.0000MF10P-K5 FA-128 26.0000MF20X-K3 FA-128 27.1200ME15X-AJ0 FA-128 40.0000MF10Z-AJ FA-128 50.0000MF10Z-AG3 FA-128 35.3280MF15X-AG3 FA-128 19.2000MF10Z-W0 FA-128 24.0000MD30X-K0 FA-128 27.1200MD30Z-K0 FA-128 25.0000MD30Z-K3 FA-128 26.0000MF10Z-W5 FA-128 26.0000MF20X-K FA-128 27.0000MF10Z-AC FA-128 37.4000MF10Z-C5 FA-128 38.4000MF12CC-AG0 FA-128 26.0000MF10Z-K FA-128 27.0000MF18X-AJ FA-128 40.0000MF20X-K FA-128 48.000000M-70689N22R3 FA-128 24.0000MF10Z-AJ3 FA-128 25.0000MD30Z-AJ FA-128S 38.4000MF12Y-AGX FA-128S 38.40M-70AAYYH50REX FA-128 48.0000MF10Y-KX FA-128 48.0000MF15X-AG