Crystal unit

SEIKO EPSON CORPORATION





Specifications (characteristics)

ltem	Symbol	Specifications			Conditiona / Domarka
		FC-12D	FC-	12M	Conditions / Remarks
Nominal frequency range	f_nom	32.768 kHz	32.768 kHz	32 kHz to 77.5 kHz	Please contact us about available frequencies.
Storage temperature	T_stg	-55 °C to +125 °C			Storage as single product.
Operating temperature	T_use		-40 °C to +85 °C		
Level of drive	DL	0.25 μW Max.	0.5 μW Max.		
Frequency tolerance (standard)	f_tol	±20 × 10 ⁻⁶	$\pm 20 \times 10^{-6}$ $\pm 30 \times 10^{-6}$		+25 °C, DL=0.1 μW Please ask for tighter tolerance
Turnover temperature	Ti	+25 °C ±5 °C			
Parabolic coefficient	В	-0.04×10^{-6} / °C ² Max.			
Load capacitance	CL	7 pF, 9pF, 12.5pF	12.	5pF	Please specify
Motional resistance (ESR)	R1	75 k Ω Max.	90 kΩ Max.	90 k Ω to 65 k Ω	
Motional capacitance	C1	3.7 fF Typ.	6.4 fF Typ.	7.0 fF to 2.7 fF	
Shunt capacitance	Co	0.8 pF Typ.	1.3 pF Typ.	1.6 pF to 0.8pF	
Frequency aging	f_age	±	±3 × 10 ⁻⁶ / year Max.		+25 °C, First year

Product name (Standard form) FC-12D 32.768000kHz 12.5 +20.0-20.0 1 2 3 4

 Model ③Load capacitance(pF) ④Frequency tolerance(× 10⁻⁶, +25 °C) ②Frequency

External dimensions

