

kHz RANGE CRYSTAL UNIT

Product Number

MC-306 : Q1xMC3062xxxx00

MC-306 / MC-306 TYPE

•Frequency range : MC-306··· 32.768 kHz

: MC-306 TYPE ··· 20 kHz to 120 kHz

•Thickness : 8.0 × 3.8 × 2.54 mm •Overtone order : Fundamental

• Applications : Clock and Microcomputer





Specifications (characteristics)

Item	Symbol	Specifications		Conditions / Remarks	
		MC-306	MC-306 TYPE	Conditions / Remarks	
Nominal frequency range	f_nom	32.768 kHz	20 kHz to 120 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	1.0 μW Max.			
Frequency tolerance (standard)	f_tol	±20 × 10 ⁻⁶ , ±50 × 10 ⁻⁶	±50 × 10 ⁻⁶ , ±100 × 10 ⁻⁶	+25 C, DL=0.1 μW	
Turnover temperature	ī	+25 C±5 C			
Load capacitance	CL	6 pF to ∞ (standard :12.5 pF)		Please specify	
Motional resistance (ESR)	R1	50 kΩ Max.	As per table below		
Frequency aging	f_age	±3 × 10 ⁻⁶ / year Max.	±5 × 10 ⁻⁰ / year Max.	+25 C, First year	

MC-306 TYPE Motional resistance (ESR)

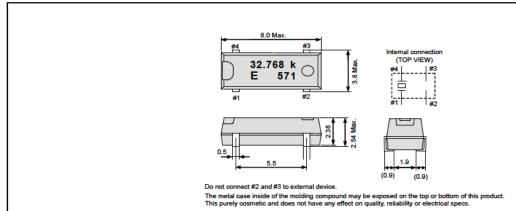
Frequency	20 kHz≤f_nom< 31.2 kHz	31.2 kHz≤f_nom< 40 kHz	40 kHz≤f_nom< 90 kHz	90 kHz≤f_nom≤120 kHz
Motional resistance	55 kΩ Max.	35 kΩ Max.	20 kΩ Max.	12 kΩ Max.

Product name (Standard form)

MC-306 32.768000kHz 12.5 +20.0-20.0 3 4

①Model ②Frequency ③Load capacitance(pF) ④Frequency tolerance(× 10⁻⁶, +25 C)

External dimensions (Unit:mm)



Footprint (Recommended) (Unit:mm)