mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Crystal unit

THIN SMD LOW/MEDIUM-FREQUENCY CRYSTAL UNIT

MC-206

Product number (please refer to page 1) Q1 xMC206 x x x x x 00

- High-density mounting-type SMD of Max. 2.0 mm thickness.
- High heat resistance allows reflow soldering.
- Excellent environmental capability.



Item		Symbol	Specifications		Remarks				
Nominal frequency		f	32.768 kHz	32.000 kHz to 100.000 kHz					
Temperature range	Storage temperature	Tstg	-55 °C to +125 °C		Stored as bare product after unpacking				
	Operating temperature	Topr	-40 °C to +85 °C						
Maximum drive level		GL	1.0 µW Max.						
Frequency tolerance (standard)		Δf/f	±20 x 10 ⁻⁶ , ±50 x 10 ⁻⁶	±50 x 10 ⁻⁶ , ±100 x 10 ⁻⁶	Ta=+25 °C, DL=0.1 μW				
Peak temperature (frequency)		θΤ	+25 °C ±5 °C						
Temperature coefficient (frequency)		а	-0.04 x 10 ⁻⁶ / °C ² Max.						
Load capacitance		CL	7 pF, 12.5 pF		Please specify				
Series resistance		R1	55 kΩ Max.	50 k Ω to 20 k Ω	As per below table				
Motional capacitance		C1	1.8 fF Typ.	3.0 fF Max.					
Shunt capacitance		Co	0.9 pF Typ.	1.5 pF Max.					
Insulation resistance		IR	500 MΩ Min.						
Aging		fa	±3 x 10 ⁻⁶ / year Max.	±5 x 10 ⁻⁶ / year Max.	Ta= +25 °C ±3 °C, first year				
Shock resistance		S.R.	±5 x 10 ⁻⁶ Max.		Three drops on a hard board from 750 mm or excitation test with 29400 m/s² x 0.3 ms x 1/2 sine wave x 3 directions				

Specifications (characteristics)

Series resistance

Frequency (kHz)	32 ≤ f < 38	38 ≤ f < 65.536	65.536 ≤ f < 75	75 ≤ f ≤100
Series resistance (Ω)	50 kΩ Max.	40 kΩ Max.	25 kΩ Max.	20 kΩ Max.

External dimensions



