



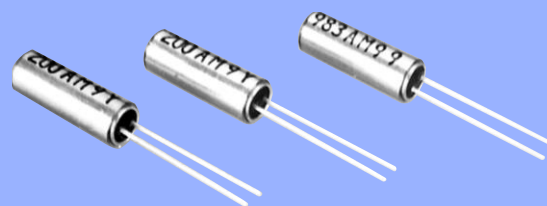
MHz RANGE CRYSTAL UNIT

CA-301

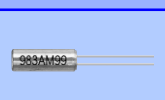
- Frequency range : 4 MHz to 64 MHz
- Thickness : $\phi 3.1$ mm Max.
- Overtone order : Fundamental
3rd overtone (30 MHz to 64 MHz)
- Applications : For Clock of integrated circuit



Product Number (please contact us)
Q21CA3011xxxx00



Actual size



Specifications (characteristics)

Item	Symbol	Specifications	Conditions / Remarks
Nominal frequency range	f _{nom}	4.000 MHz to 29.999 MHz	Fundamental *1
		30.000 MHz to 64.000 MHz	3rd overtone *2
Storage temperature	T _{stg}	-40 °C to +85 °C	Storage as single product.
Operating temperature	T _{use}	-20 °C to +70 °C	The operating temperature range is -10 °C to +60 °C for 5.5 MHz and below
Level of drive	DL	10 μ W to 100 μ W	
Frequency tolerance (standard)	f _{tol}	$\pm 30 \times 10^{-6}$ (Under 5.5 MHz: $\pm 50 \times 10^{-6}$, $\pm 100 \times 10^{-6}$)	+25 °C
Frequency versus temperature characteristics (standard)	f _{tem}	Under 5.5 MHz: $\pm 50 \times 10^{-6}$	-10 °C to +60 °C
		Over 5.5 MHz: $\pm 30 \times 10^{-6}$	-20 °C to +70 °C
Load capacitance	CL	Fundamental: 10 pF to ∞ , Overtone: 5 pF to ∞	Please specify
Motional resistance (ESR)	R ₁	As per table below	-20 °C to +70 °C, DL=100 μ W
Frequency aging	f _{age}	$\pm 5 \times 10^{-6}$ / year Max.	+25 °C, First year

*1 4.0 MHz $\leq$ f_{nom} < 5.5 MHz : See "Available frequencies from 4.0 MHz to less than 5.5 MHz". 8.0 MHz < f_{nom} < 8.2 MHz: Unavailable.

*2 26.000 MHz $\leq$ f_{nom} < 30.000 MHz : please contact us for inquiries for 3rd overtone mode.

Available frequencies from 4.0 MHz to less than 5.5 MHz (MHz)

4.000	4.032	4.096	4.190	4.194304	4.433619	4.500	4.800	4.9152
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Motional resistance (ESR)

Frequency (MHz)	$4 \leq f_{nom} < 5.5$	$5.5 \leq f_{nom} < 6$	$6 \leq f_{nom} < 10$	$10 \leq f_{nom} < 12$	$12 \leq f_{nom} < 16$	$16 \leq f_{nom} < 30$	$30 \leq f_{nom} \leq 36$	$36 < f_{nom} \leq 64$
Motional resistance	150 Ω Max.	100 Ω Max.	80 Ω Max.	60 Ω Max.	50 Ω Max.	40 Ω Max.	100 Ω Max.	80 Ω Max.
Overtone order	Fundamental						3rd overtone	

Product name CA-301 24.000000MHz 12.0 +10.0-10.0

(Standard form)

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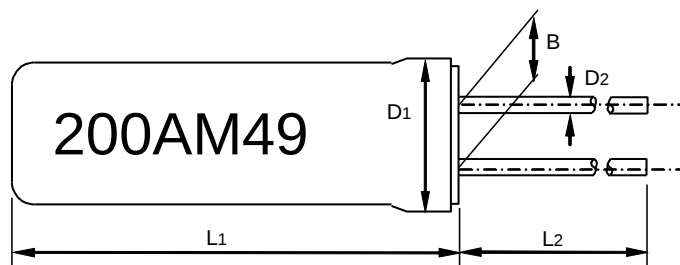
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④

①Model ②Frequency ③Load capacitance(pF) ④Frequency tolerance($\times 10^{-6}$, +25 °C)

External dimensions

(Unit:mm)



Frequency	L1	L2	D1	D2	B
Under 5.5 MHz	9.3 Max.	9.5 Min.	$\phi 3.1$ Max.	$\phi 0.3$	1.1
Over 5.5 MHz	8.9 Max.	9.5 Min.	$\phi 3.1$ Max.	$\phi 0.3$	1.1

AMEYA360

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