



RoHS Compliant

Features

- Crystal unit for automotive electronics
- Small and low profile (5.0×3.2×1.3mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible
- AEC-Q200 certified

Applications

- ECU

How to Order

CX5032GA 08000

- ① Series
- ② Frequency
- ③ Load Capacitance
- ④ Frequency Stability
- ⑤ Operating Temp. Range
- ⑥ Frequency Temp. Stability
- ⑦ Individual Specification

DO	8 pF	—	P	$\pm 50 \times 10^{-6}$	—
HO	12 pF	Std.	Q	$\pm 100 \times 10^{-6}$	Std.

TW	-40 to +150°C	$\pm 200 \times 10^{-6}$	Std.
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Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	8000 to 40000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	pF	
Frequency Stability	f_{tol}	± 100	$\times 10^{-6}$	25°C ± 3 °C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μ W	
Operating Temp. Range	T_{use}	-40 to +150	°C	
Storage Temp. Range	T_{stg}	-40 to +150	°C	
Frequency Temp. Characteristics	f_{tem}	± 200	$\times 10^{-6}$	Freq. deviation from the value at 25°C

* Please contact us for other specifications.

Typical Frequencies and Part Numbers

Frequency (kHz)	Part Number
8000.000	CX5032GA08000HOQTWZ1
9843.750	CX5032GA09843HOQTWZ1
10000.000	CX5032GA10000HOQTWZ1
12000.000	CX5032GA12000HOQTWZ1
13560.000	CX5032GA13560HOQTWZ1
15000.000	CX5032GA15000HOQTWZ1
16000.000	CX5032GA16000HOQTWZ1
18000.000	CX5032GA18000HOQTWZ1
20000.000	CX5032GA20000HOQTWZ1
24000.000	CX5032GA24000HOQTWZ1
25000.000	CX5032GA25000HOQTWZ1

Table1 Motional Series Resistance

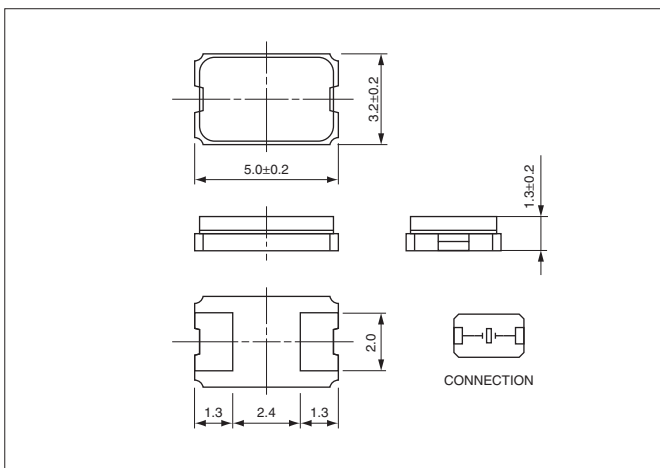
Frequency Range	Motional Series Resistance
7372 to 9499kHz	300 Ω max.
9500 to 9999kHz	200 Ω max.
10000 to 13999kHz	150 Ω max.
14000 to 19999kHz	100 Ω max.
20000 to 29999kHz	70 Ω max.
30000 to 54000kHz	50 Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
8000 to 15999kHz	10 μ W (500 μ W max.)
16000 to 24999kHz	10 μ W (300 μ W max.)
25000 to 40000kHz	10 μ W (100 μ W max.)

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

