

5.0×3.2mm for Automotive



RoHS Compliant

## Features

- Crystal unit for automotive electronics
- Small and low profile (5.0×3.2×1.3mm)
- Ceramic package
- Reflow compatible
- AEC-Q200 qualified

## Applications

- ECU

## How to Order

CX5032GA 08000 □ □ □ □ □ □

① ② ③ ④ ⑤ ⑥ ⑦

- ① Series ② Frequency  
③ Load Capacitance ④ Frequency Tolerance

**H0** 12 pF **Q** ±100×10<sup>-6</sup>

- ⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

**TV** -40 to +150°C ±150×10<sup>-6</sup>

- ⑦ Individual Specification

Packaging (Tape & Reel 1000 pcs./ reel)

## Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f <sub>nom</sub>	8000 to 40000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f <sub>tol</sub>	±50	×10 <sup>-6</sup>	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μW	
Operating Temp. Range	T <sub>use</sub>	-40 to +150	°C	
Storage Temp. Range	T <sub>stg</sub>	-40 to +150	°C	
Frequency Temp. Characteristics	f <sub>tem</sub>	±150	×10 <sup>-6</sup>	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

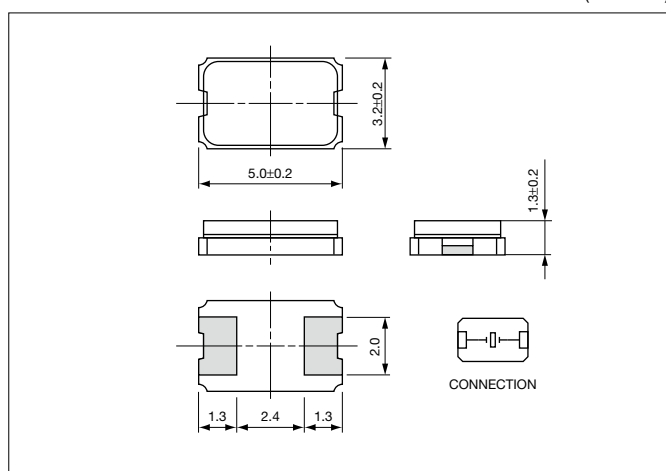
Frequency Range	Motional Series Resistance
8000≤f <sub>nom</sub> < 9500kHz	300Ω max.
9500≤f <sub>nom</sub> <10000kHz	200Ω max.
10000≤f <sub>nom</sub> <14000kHz	150Ω max.
14000≤f <sub>nom</sub> <20000kHz	100Ω max.
20000≤f <sub>nom</sub> <30000kHz	70Ω max.
30000≤f <sub>nom</sub> <40000kHz	50Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
8000≤f <sub>nom</sub> <16000kHz	10μW (500μW max.)
16000≤f <sub>nom</sub> <25000kHz	10μW (300μW max.)
25000≤f <sub>nom</sub> <40000kHz	10μW (100μW max.)

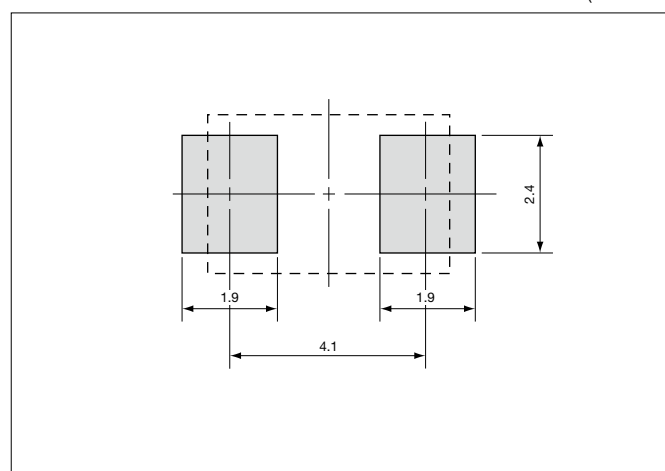
## Dimensions

(Unit: mm)



## Recommended Land Pattern

(Unit: mm)



# Mouser Electronics

Authorized Distributor

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[CX5032GA08000H0PST02](#) [CX5032GA12000P0HPQZ1](#)