

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 H0 Q T V Z1**  
① ② ③ ④ ⑤ ⑥ ⑦

- ① Series ② Frequency  
③ Load Capacitance ④ Frequency Tolerance  
⑤ Operating Temp. Range ⑥ Frequency Temp. Stability  
⑦ Individual Specification (STD Specification is "Z1")

<b>H0</b>	12 pF	<b>Q</b>	$\pm 100 \times 10^{-6}$
<b>TV</b>	-40 to +150°C		$\pm 150 \times 10^{-6}$

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**

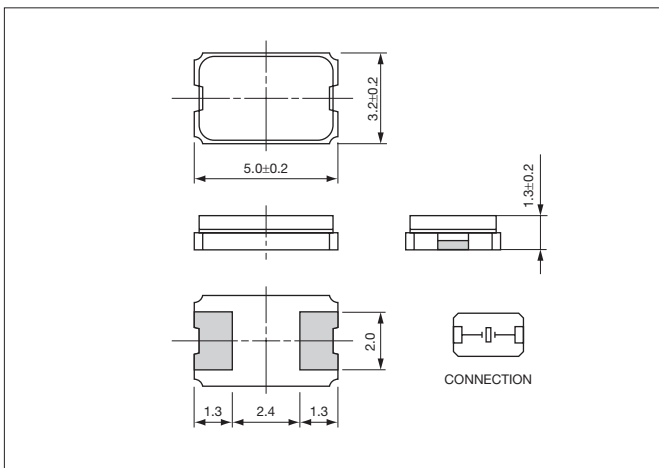
Frequency Range	Motional Series Resistance
8000≤f <sub>nom</sub> < 9500kHz	300Ω max.
9500≤f <sub>nom</sub> <10000kHz	200Ω max.
10000≤f <sub>nom</sub> <14000kHz	150Ω max.
14000≤f <sub>nom</sub> <20000kHz	100Ω max.
20000≤f <sub>nom</sub> <30000kHz	70Ω max.
30000≤f <sub>nom</sub> <40000kHz	50Ω max.

**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.)

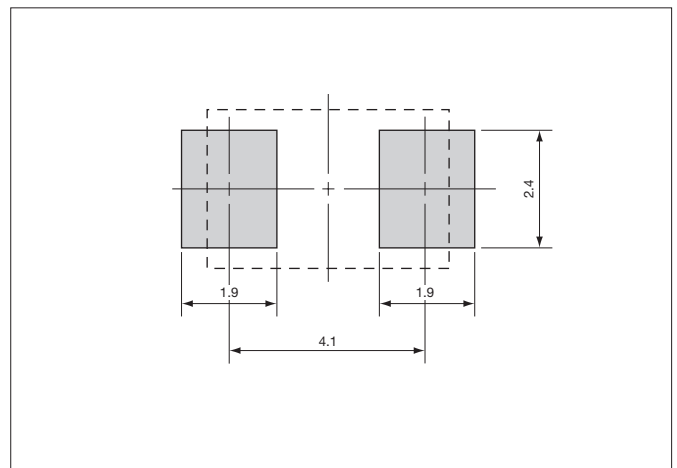
### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)



# Mouser Electronics

Authorized Distributor

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