

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")

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

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	8000 to 40000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f_{tol}	± 50	$\times 10^{-6}$	25°C $\pm 3^\circ\text{C}$
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μW	
Operating Temp. Range	T_{use}	-40 to +150	°C	
Storage Temp. Range	T_{stg}	-40 to +150	°C	
Frequency Temp. Characteristics	f_{tem}	± 150	$\times 10^{-6}$	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

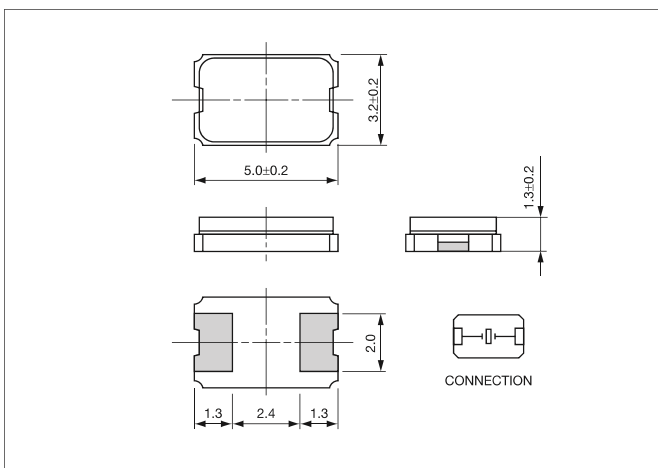
Frequency Range	Motional Series Resistance
8000 $\leq f_{nom} < 9500$ kHz	300Ω max.
9500 $\leq f_{nom} < 10000$ kHz	200Ω max.
10000 $\leq f_{nom} < 14000$ kHz	150Ω max.
14000 $\leq f_{nom} < 20000$ kHz	100Ω max.
20000 $\leq f_{nom} < 30000$ kHz	70Ω max.
30000 $\leq f_{nom} \leq 40000$ kHz	50Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
8000 $\leq f_{nom} < 16000$ kHz	10μW (500μW max.)
16000 $\leq f_{nom} < 25000$ kHz	10μW (300μW max.)
25000 $\leq f_{nom} \leq 40000$ kHz	10μW (100μW max.)

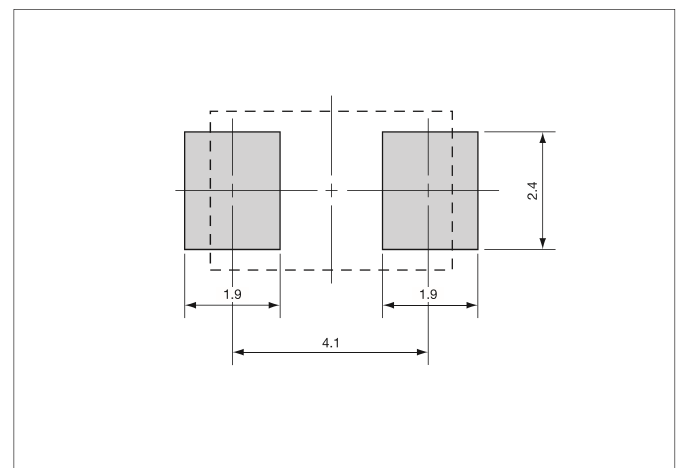
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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[Kyocera:](#)

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