

# Crystal Units Surface Mount Type CX5032GA (CX-53G)



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
- Product with lead free terminations
- Reflow compatible
- AEC-Q200 certified

## Applications

- ECU

## How to Order

CX5032GA 08000 □□ □ □ □ □ □

① ② ③ ④ ⑤ ⑥ ⑦

① Series	② Frequency	③ Load Capacitance	④ Frequency Stability	⑤ Operating Temp. Range	⑥ Frequency Temp. Stability	⑦ Individual Specification... Std.Spec. as "ZZ"
<b>H0</b>	12 pF	Std.	<b>P</b>	$\pm 50 \times 10^{-6}$	—	
			<b>Q</b>	$\pm 100 \times 10^{-6}$	Std.	
<b>SW</b>	-40 to +125°C			$\pm 200 \times 10^{-6}$	Std.	

## 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	$f_{tol}$	$\pm 100$	$\times 10^{-6}$	@ 25°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	$\mu W$	
Operating Temp. Range	$T_{use}$	-40 to +125	°C	
Storage Temp. Range	$T_{stg}$	-40 to +150	°C	
Frequency Temp. Characteristics	$f_{tem}$	$\pm 200$	$\times 10^{-6}$	ref. @ 25°C over operating temperature range

\* Please contact us for other specifications.

## Typical Frequencies and Part Numbers

Frequency (kHz)	Standard Part Number
8000.000	CX5032GA08000H0QSWZZ
9843.750	CX5032GA09843H0QSWZZ
10000.000	CX5032GA10000H0QSWZZ
12000.000	CX5032GA12000H0QSWZZ
13560.000	CX5032GA13560H0QSWZZ
15000.000	CX5032GA15000H0QSWZZ
16000.000	CX5032GA16000H0QSWZZ
18000.000	CX5032GA18000H0QSWZZ
20000.000	CX5032GA20000H0QSWZZ
24000.000	CX5032GA24000H0QSWZZ
25000.000	CX5032GA25000H0QSWZZ

## Table1 Motional Series Resistance

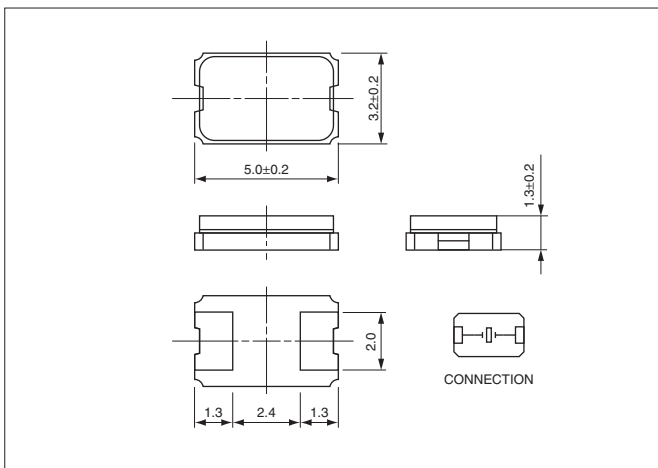
Frequency Range	Motional Series Resistance	Units
8000 to 9999kHz	300 max.	ohm
10000 to 11999kHz	200 max.	
12000 to 13999kHz	150 max.	
14000 to 29999kHz	100 max.	
30000 to 40000kHz	50 max.	

## Table2 Level of Drive

Frequency Range	Drive Level	Units
8000 to 15999kHz	10 (500 max.)	$\mu W$
16000 to 24999kHz	10 (300 max.)	
25000 to 40000kHz	10 (100 max.)	

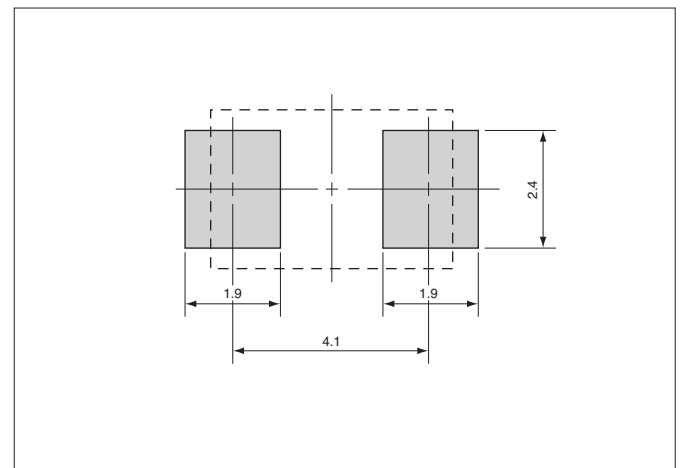
## Dimensions

(Unit: mm)



## Recommended Land Pattern

(Unit: mm)



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