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

KYOCERA

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 Stability

D0	8 pF	—
H0	12 pF	Std.

P	$\pm50\times10^{-6}$	—
Q	$\pm100\times10^{-6}$	Std.

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

TW	−40 to +150°C	$\pm200\times10^{-6}$	Std.

⑦ Individual Specification

Packaging (Tape & Reel 3000/ 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	
Frequency Stability	f_{tol}	±100	$\times10^{-6}$	25°C±3°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}	±200	$\times10^{-6}$	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	CX5032GA08000H0QTWZ1
9843.750	CX5032GA09843H0QTWZ1
10000.000	CX5032GA10000H0QTWZ1
12000.000	CX5032GA12000H0QTWZ1
13560.000	CX5032GA13560H0QTWZ1
15000.000	CX5032GA15000H0QTWZ1
16000.000	CX5032GA16000H0QTWZ1
18000.000	CX5032GA18000H0QTWZ1
20000.000	CX5032GA20000H0QTWZ1
24000.000	CX5032GA24000H0QTWZ1
25000.000	CX5032GA25000H0QTWZ1

Table1 Motional Series Resistance

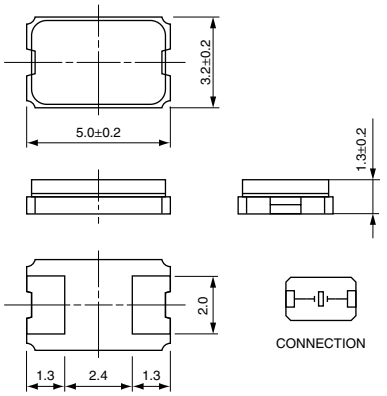
Frequency Range	Motional Series Resistance
8000 to 9499kHz	300Ω max.
9500 to 9999kHz	200Ω max.
10000 to 13999kHz	150Ω max.
14000 to 19999kHz	100Ω max.
20000 to 29999kHz	70Ω max.
30000 to 40000kHz	50Ω max.

Table2 Level of Drive

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

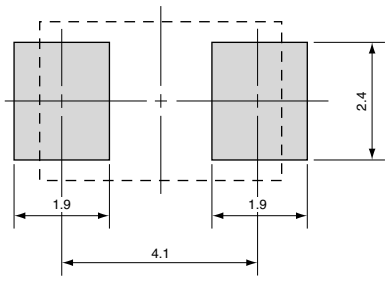
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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