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
- 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

D0	8 pF
H0	12 pF

P	±50×10^{-6}
Q	±100×10^{-6}

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

TW	−40 to +150°C	±200×10^{-6}

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	8	pF	
Frequency Tolerance	f_{tol}	±100	×10^{-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	×10^{-6}	Freq. deviation from the value at 25°C

• Please contact us for other specifications.

Table1 Motional Series Resistance

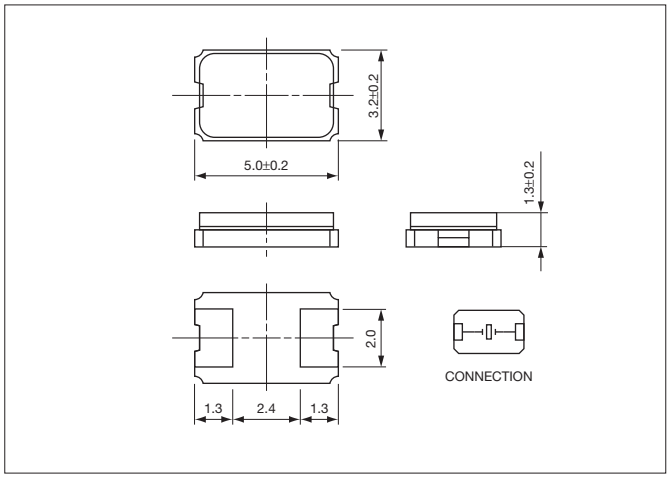
Frequency Range	Motional Series Resistance
8000≤f_{nom}< 9500kHz	300Ω max.
9500≤f_{nom}<10000kHz	200Ω max.
10000≤f_{nom}<14000kHz	150Ω max.
14000≤f_{nom}<20000kHz	100Ω max.
20000≤f_{nom}<30000kHz	70Ω max.
30000≤f_{nom}≤40000kHz	50Ω max.

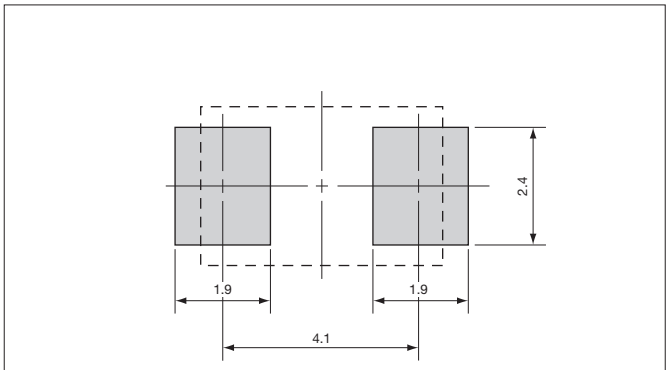
Table2 Level of Drive

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

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)