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 (5.0x3.2x1.3mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible

Applications
- Engine Control

How to Order

CX5032GA 16000 H0 Q S W ZZ
① ② ③ ④ ⑤ ⑥ ⑦

①Code

②Typical Frequencies

Code	Freq.(kHz)	Code	Freq.(kHz)
10000	10000.000	**18000**	18000.000
12000	12000.000	**20000**	20000.000
15000	15000.000	**24000**	24000.000
16000	16000.000	**25000**	25000.000

*Please inquire about frequencies other than the above.

③Load Capacitance

H0	12pF

④Frequency Stability

Q	$\pm100\times10^{-6}$

⑤Operating Temperature Range

S	–40°C to +125°C

⑥Frequency Temperature Stability

W	$\pm200\times10^{-6}$

⑦Special

ZZ	Custom Specification

Specifications

Items	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	9843.75 to 40000	kHz	
Overtone Order	OT	Fundamental	——	
Frequency Tolerance	f_{tol}	±100	$\times10^{-6}$	@ 25°C
Frequency Temp. Characteristics	f_{tem}	±200	$\times10^{-6}$	ref.@ 25°C Over Operating Temp. Range
Motional Series Resistance	R1	Table 1	ohm	
Level of Drive	DL	Table 2	μW	
Load Capacitance	CL	12	pF	
Operating Temp. Range	T_{use}	–40 to +125	°C	
Storage Temp. Range	T_{stg}	–40 to +150	°C	

* Please inqurie about specifications other than the above.

Table1 Motional Series Resistances

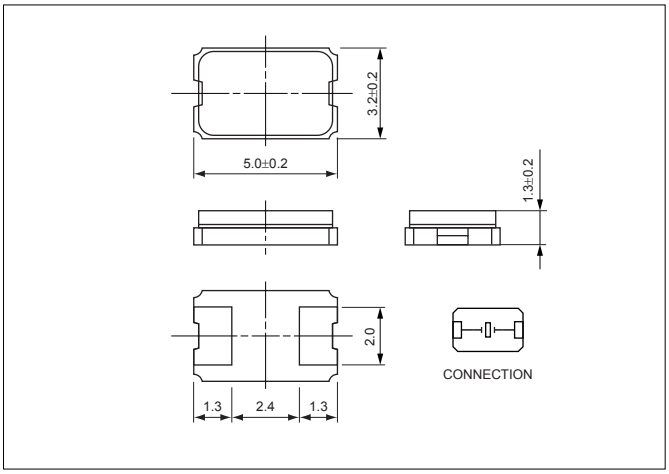
Frequency Range	Motional Series Resistance	Units
9843.75 to 11999kHz	200	ohm
12000 to 13999kHz	150	
14000 to 29999kHz	100	
30000 to 40000kHz	50	

Table2 Level of Drive

Frequency Range	Level of Drive	Units
9843.75 to 15999kHz	10 (500 max.)	μW
16000 to 24999kHz	10 (300 max.)	
25000 to 40000kHz	10 (100 max.)	

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)

