

5.0×3.2mm for Automotive



Features

- Crystal unit for automotive electronics
- Improved solderability
- Using ceramic package resulting in high reliability
- Small and low profile
- Improved rust prevention performance
- Reflow compatible
- AEC-Q200 qualitied

Applications

- ECU TPMS
- High-Speed Automotive Network (Flex Ray[™] etc.)

How to Order

<u>CX</u>	5032SA (08000 ②	<u>)</u>	3		7
① Series ③ Load Capacitance					equency equency St	ability
D0	8 pF	_		Р	±50×10 ⁻⁶	Std.
F0	10 pF	_		Q	±100×10 ⁻⁶	
НО	12 pF	Std.				

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

SV −40 to +125°C ±150×10⁻⁶ −

7 Individual Specification

TW -40 to +150°C

Packaging (Tape & Reel 5000/ 1000 pcs./ reel)

±200×10⁻⁶

Std.

Specifications

opeomodiono					
Item	Symbol	Specification	Units	Remarks	
Frequency Range	f_nom	8000 to 40000	kHz		
Overtone Order	ОТ	Fundamental	_		
Load Capacitance	CL	12	pF		
Frequency Stability	f_tol	±50	×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	

Typical Frequencies and Part Numbers

Frequency (kHz)	Part Number		
8000.000	CX5032SA08000H0PTWZ1		
9843.750	CX5032SA09843H0PTWZ1		
10000.000	CX5032SA10000H0PTWZ1		
12000.000	CX5032SA12000H0PTWZ1		
13560.000	CX5032SA13560H0PTWZ1		
15000.000	CX5032SA15000H0PTWZ1		
16000.000	CX5032SA16000H0PTWZ1		
18000.000	CX5032SA18000H0PTWZ1		
20000.000	CX5032SA20000H0PTWZ1		
24000.000	CX5032SA24000H0PTWZ1		
25000.000	CX5032SA25000H0PTWZ1		

Table1 Motional Series Resistance

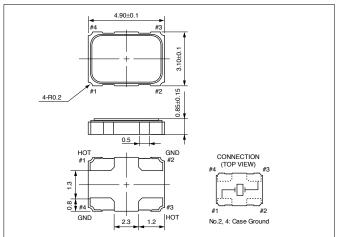
Frequency Range	Motional Series Resistance		
8000 to 8999kHz	200Ω max.		
9000 to 11999kHz	150Ω max.		
12000 to 19999kHz	100Ω max.		
20000 to 40000kHz	50Ω max.		

Table2 Level of Drive

Frequency Range	Level of Drive
8000 to 40000kHz	10μW (100μW max.)

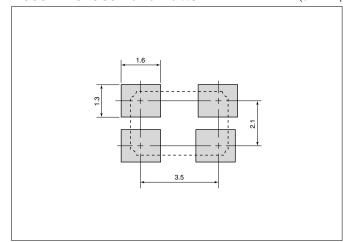
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



[•] Please contact us for other specifications.