

5.0×3.2mm for Automotive



RoHS Compliant

Features

- Crystal unit for automotive electronics
- Improved solderability
- Ceramic package
- Small and low profile
- Improved rust prevention performance
- Reflow compatible
- AEC-Q200 qualified

Applications

- ECU
- TPMS
- High-Speed Automotive Network

How to Order

CX5032SA 08000 HO P T V Z1
① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- ② Frequency
- ③ Load Capacitance
- ④ Frequency Tolerance
- ⑤ Operating Temp. Range
- ⑥ Frequency Temp. Stability
- ⑦ Individual Specification (STD Specification is "Z1")

HO	12 pF	P	±50×10 ⁻⁶
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TV	-40 to +150°C		±150×10 ⁻⁶
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Packaging (Tape & Reel 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	Please contact us for other Load Capacitance.
Frequency Tolerance	f _{tol}	±15	×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}	±150	×10 ⁻⁶	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

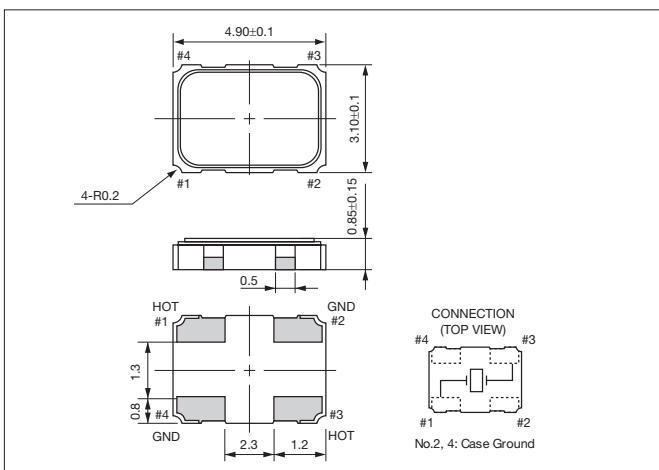
Frequency Range	Motional Series Resistance
8000 ≤ f _{nom} < 9000kHz	200Ω max.
9000 ≤ f _{nom} < 12000kHz	150Ω max.
12000 ≤ f _{nom} < 20000kHz	100Ω max.
20000 ≤ f _{nom} ≤ 40000kHz	50Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
8000 ≤ f _{nom} ≤ 40000kHz	10μW (100μW max.)

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

