

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 |
|-----------|-------|----------|----------------------|

| | | | |
|-----------|---------------|--|-----------------------|
| TV | -40 to +150°C | | ±150×10 ⁻⁶ |
|-----------|---------------|--|-----------------------|

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

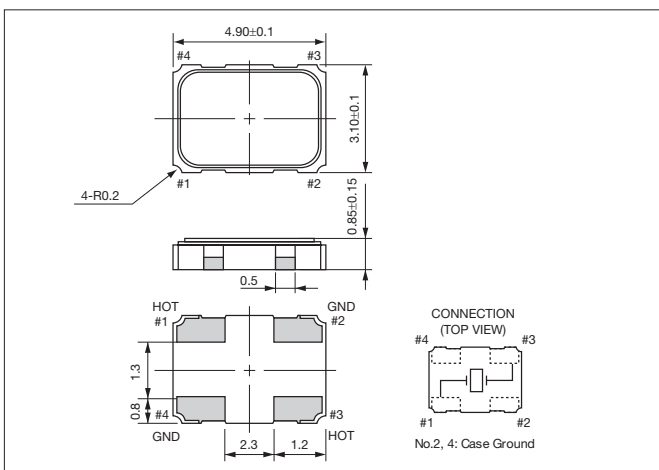
| Frequency Range | Motional Series Resistance |
|-------------------------------------|----------------------------|
| 8000 ≤ f _{nom} < 9000kHz | 200Ω max. |
| 9000 ≤ f _{nom} < 12000kHz | 150Ω max. |
| 12000 ≤ f _{nom} < 20000kHz | 100Ω max. |
| 20000 ≤ f _{nom} ≤ 40000kHz | 50Ω max. |

Table2 Level of Drive

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

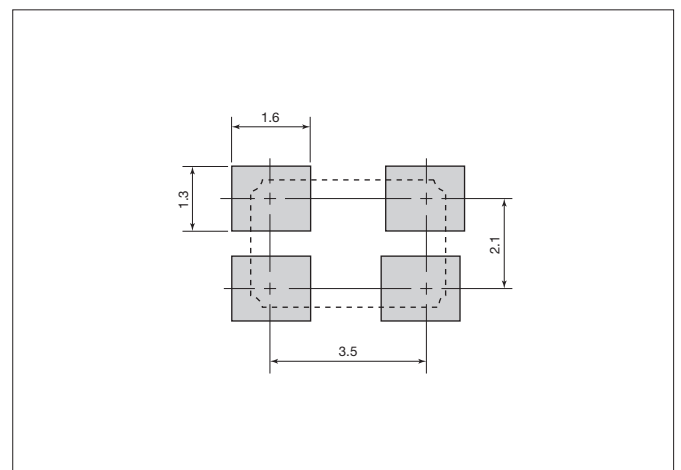
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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