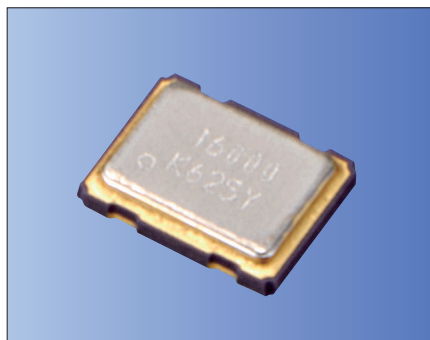




3.2×2.5mm for Automotive



AEC-Q200 RoHS Compliant

### Features

- Crystal unit for automotive electronics
- Improved solderability
- Improved mounting stability with 4 terminals
- Improved anti-noise performance with GND terminal
- Ceramic package
- Small and low profile
- Improved rust prevention performance
- Reflow compatible
- Highly reliable solder junction (3000 heat cycles -40 to +125°C)

### Applications

- ECU
- TPMS
- High-Speed Automotive Network

### How to Order

CX3225SA 12000 D0 G T V CC  
① ② ③ ④ ⑤ ⑥ ⑦

① Series

③ Load Capacitance

D0 8 pF

⑤ Operating Temp. Range

TV -40 to +150°C

⑦ Individual Specification

(STD Standard is "CC".)

② Frequency

④ Frequency Tolerance

G ±15×10<sup>-6</sup>

⑥ Frequency Temp. Stability

±150×10<sup>-6</sup>

Packaging (Tape & Reel 3000 pcs./ reel)

### Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f <sub>nom</sub>	8, 10, 12, 15, 16, 20, 24, 26, 27, 40	MHz	Please contact us for other frequency range.
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	f <sub>tol</sub>	±15	×10 <sup>-6</sup>	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10μW(200μW max.)	μW	
Operating Temp. Range	T <sub>use</sub>	-40 to +150	°C	
Storage Temp. Range	T <sub>stg</sub>	-40 to +150	°C	
Frequency Temp. Characteristics	f <sub>tem</sub>	±150	×10 <sup>-6</sup>	Freq. deviation from the value at 25°C

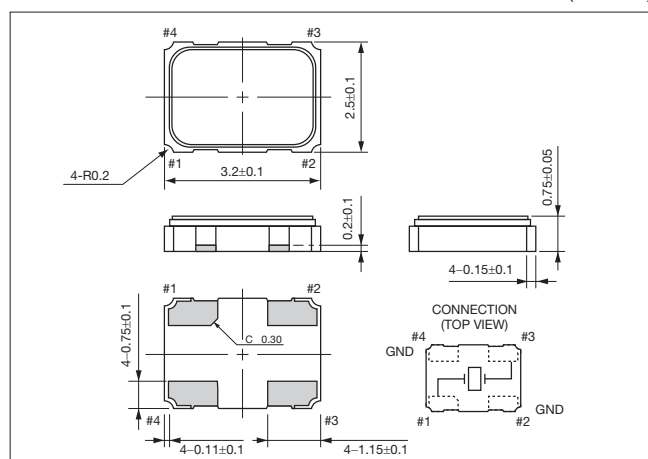
Please contact us for other specifications.

Table 1 Motional Series Resistance Please contact us for other frequency range.

Frequency	Motional Series Resistance
8MHz	500 Ω max.
12MHz	200 Ω max.
16MHz	60 Ω max.
20MHz	50 Ω max.

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

