



3.2x2.5mm 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	D0	8 pF	② Frequency	G	$\pm 15 \times 10^{-6}$
③ Load Capacitance			④ Frequency Tolerance		
⑤ Operating Temp. Range	TV	-40 to +150°C	⑥ Frequency Temp. Stability		$\pm 150 \times 10^{-6}$
⑦ Individual Specification (STD Standard is "CC")					

Packaging (Tape & Reel 3000 pcs./ reel)

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f _{nom}	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 _{tol}	± 15	$\times 10^{-6}$	25°C ± 3 °C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10 μ W(200 μ W max.)	μ W	
Operating Temp. Range	T _{use}	-40 to +150	°C	
Storage Temp. Range	T _{stg}	-40 to +150	°C	
Frequency Temp. Characteristics	f _{tem}	± 150	$\times 10^{-6}$	Freq. deviation from the value at 25°C

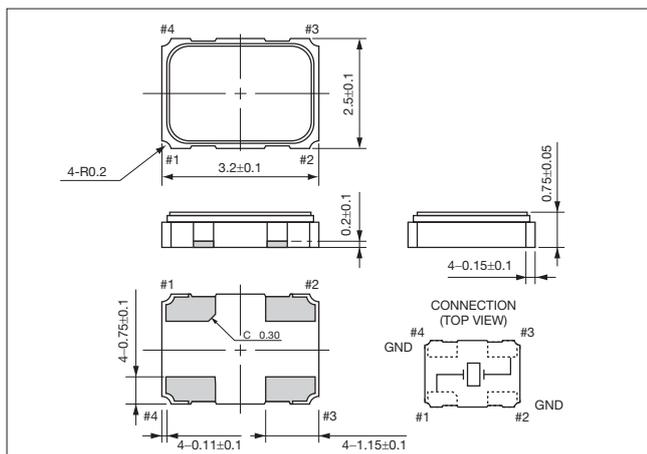
Please contact us for other specifications.

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)

