

3.2×2.5mm for Automotive



AEC-Q200 RoHS Compliant

Features

- Crystal unit for automotive electronics
- Small and low profile (3.2×2.5×0.80mm)
- Ceramic package
- Reflow compatible

Applications

- ECU
- High-Speed Automotive Network

How to Order

CX3225CA 16000 D0 P S V CC
① ② ③ ④ ⑤ ⑥ ⑦

①Series ②Frequency
③Load Capacitance ④Frequency Tolerance

D0	8 pF	P	$\pm 50 \times 10^{-6}$
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⑤Operating Temp. Range ⑥Frequency Temp. Stability

SV	-40 to +125°C	$\pm 150 \times 10^{-6}$
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⑦ Individual Specification
(STD Standard is "CC".)

Packaging (Tape & Reel 3000 pcs./ reel)

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f _{nom}	12000 to 54000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	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 +125	°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.

Table 1 Motional Series Resistance

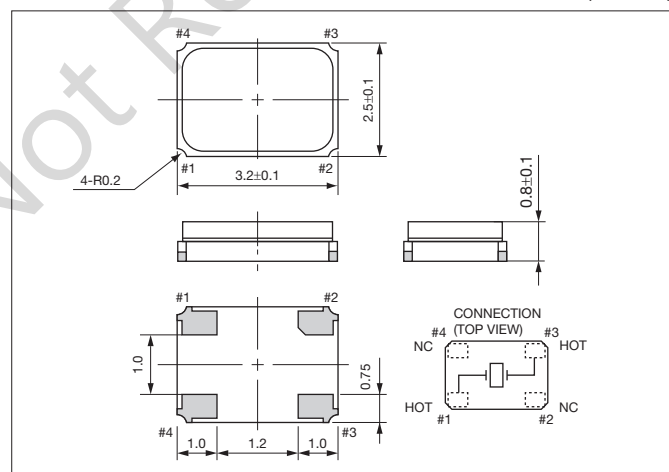
Frequency Range	Motional Series Resistance
$12000 \leq f_{\text{nom}} < 13560 \text{ kHz}$	200 Ω max.
$13560 \leq f_{\text{nom}} < 16000 \text{ kHz}$	120 Ω max.
$16000 \leq f_{\text{nom}} \leq 54000 \text{ kHz}$	100 Ω max.

Table 2 Level of Drive

Frequency Range	Level of Drive
12000≤f _{nom} ≤54000kHz	10μW (200μW max.)

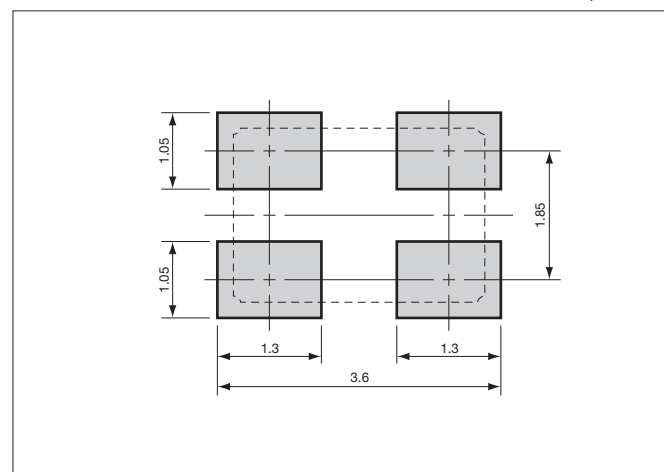
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



As of December 2019