

3.2×2.5mm for Automotive



RoHS Compliant

Features

- Crystal unit for automotive electronics
- Small and low profile (3.2×2.5×0.85mm)
- Ceramic package
- Reflow compatible
- Acceptable heat cycle solder junction for 3000 cycle (−40 to +125°C)
- AEC-Q200 qualified

Applications

- ECU • TPMS
- High-Speed Automotive Network (Flex Ray™ etc.)

How to Order

CX3225GA 16000 □ □ □ □ □ □

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

D0 8 pF P ±50×10^{−6}

TW −40 to +150°C ±200×10^{−6}

Packaging (Tape & Reel 3000 pcs./ reel)

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f _{nom}	8000 to 54000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	
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 +150	°C	
Storage Temp. Range	T _{stg}	−40 to +150	°C	
Frequency Temp. Characteristics	f _{tem}	±200	×10 ^{−6}	Freq. deviation from the value at 25°C

• Please contact us for other specifications.

Table1 Motional Series Resistance

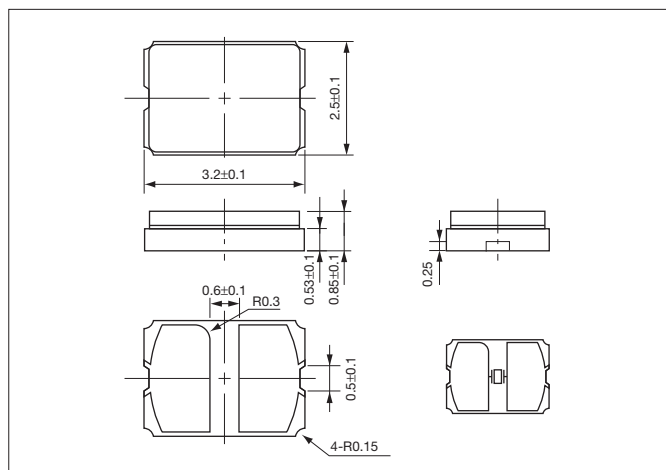
Frequency Range	Motional Series Resistance
8000≤f _{nom} < 9800kHz	500Ω max.
9800≤f _{nom} <13560kHz	200Ω max.
13560≤f _{nom} <16000kHz	120Ω max.
16000≤f _{nom} ≤54000kHz	100Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
8000≤f _{nom} ≤54000kHz	10μW (200μW max.)

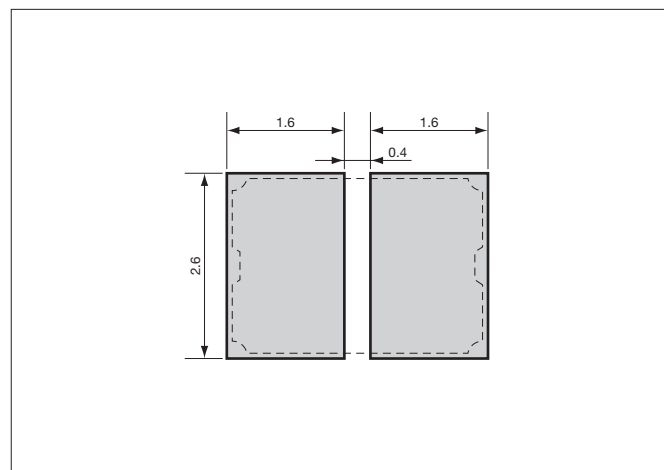
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

AVX:

<u>CX3225GA09843D0PTVZ1</u>	<u>CX3225GA10000D0PTVZ1</u>	<u>CX3225GA12000D0PTVZ1</u>	<u>CX3225GA13560D0PTVZ1</u>
<u>CX3225GA16000D0PTVZ1</u>	<u>CX3225GA20000D0PTVZ1</u>	<u>CX3225GA24000D0PTVZ1</u>	<u>CX3225GA25000D0PTVZ1</u>
<u>CX3225GA26000D0PTVZ1</u>	<u>CX3225GA27000D0PTVZ1</u>	<u>CX3225GA28636D0PTVZ1</u>	<u>CX3225GA30000D0PTVZ1</u>
<u>CX3225GA32000D0PTVZ1</u>	<u>CX3225GA40000D0PTVZ1</u>	<u>CX3225GA20000D0PTVCC</u>	<u>CX3225GA26000D0PTVCC</u>
<u>CX3225GA30000D0PTVCC</u>	<u>CX3225GA32000D0PTVCC</u>	<u>CX3225GA12000D0PTVCC</u>	<u>CX3225GA40000D0PTVCC</u>
<u>CX3225GA13560D0PTVCC</u>	<u>CX3225GA10000D0PTVTT</u>	<u>CX3225GA09843D0PTVTT</u>	<u>CX3225GA27000D0PTVCC</u>
<u>CX3225GA24000D0PTVCC</u>	<u>CX3225GA16000D0PTVCC</u>	<u>CX3225GA28636D0PTVCC</u>	<u>CX3225GA25000D0PTVCC</u>