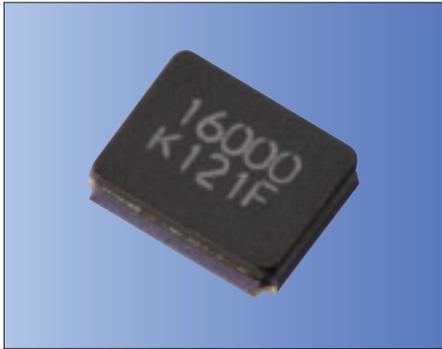# Crystal Units
Surface Mount Type   CX3225CA

KYOCERA

3.2×2.5mm   for Automotive

Features

- Crystal unit for automotive electronics
- Small and low profile (3.2×2.5×0.80mm)
- Ceramic package
- Reflow compatible
- AEC-Q200 qualified

Applications

- ECU
- High-Speed Automotive Network

RoHS Compliant

How to Order

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

① Series   ② Frequency
③ Load Capacitance   ④ Frequency Tolerance

| D0 | 8 pF | | P | $\pm 50 \times 10^{-6}$ |

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

| SV | −40 to +125°C | $\pm 150 \times 10^{-6}$ |

⑦ Individual Specification
(STD Standard is "CC")

Packaging (Tape & Reel 3000 pcs./ reel)

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	12000 to 54000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f_{tol}	±50	$\times 10^{-6}$	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	$\times 10^{-6}$	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

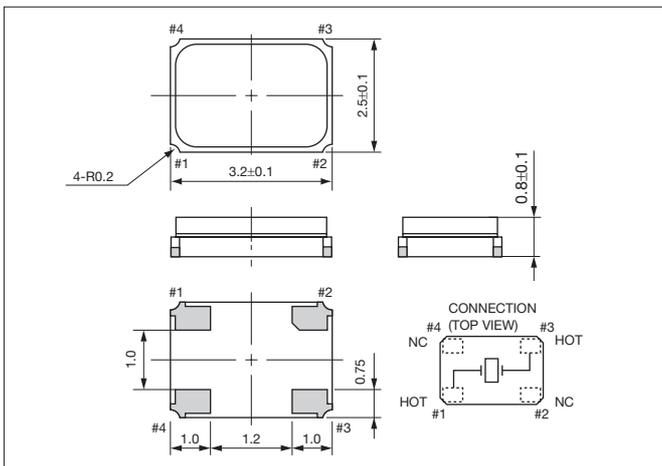| Frequency Range	Motional Series Resistance
12000≤f_{nom}<13560kHz	200Ω max.
13560≤f_{nom}<16000kHz	120Ω max.
16000≤f_{nom}≤54000kHz	100Ω max.

Table2 Level of Drive

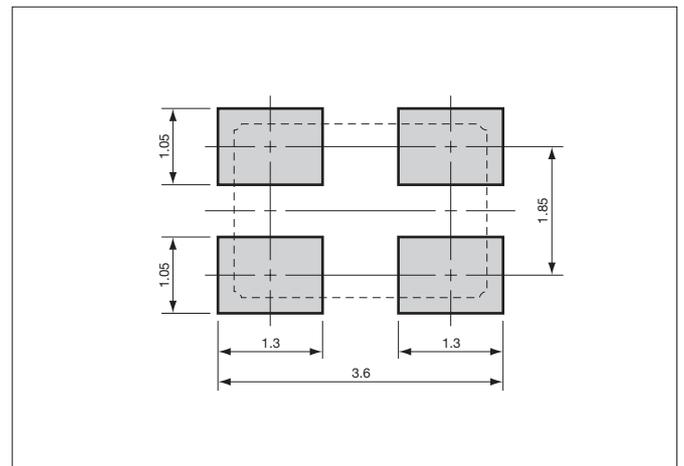| Frequency Range	Level of Drive
12000≤f_{nom}≤54000kHz	10μW (200μW max.)

Dimensions

(Unit: mm)

Recommended Land Pattern

(Unit: mm)

Mouser Electronics

Authorized Distributor

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

[Kyocera](#):

CX3225CA20000D0PSWZ1   CX3225CA09843D0HSSZ1   CX3225CA10000D0HSSZ1   CX3225CA12000D0HSSZ1
CX3225CA13560D0HSSZ1   CX3225CA16000D0HSSZ1   CX3225CA16000H0HSSZ1   CX3225CA20000D0HSSZ1
CX3225CA24000D0HSSZ1   CX3225CA25000D0HSSZ1   CX3225CA26000D0HSSZ1   CX3225CA27000D0HSSZ1
CX3225CA28636D0HSSZ1   CX3225CA30000D0HSSZ1   CX3225CA32000D0HSSZ1   CX3225CA40000D0HSSZ1
CX3225CA20000D0HSSCC   CX3225CA26000D0HSSCC   CX3225CA16000H0HSSCC   CX3225CA09843D0HSSTT
CX3225CA10000D0HSSTT   CX3225CA13560D0HSSCC   CX3225CA28636D0HSSCC   CX3225CA24000D0HSSCC
CX3225CA30000D0HSSCC   CX3225CA25000D0HSSCC   CX3225CA12000D0HSSCC   CX3225CA40000D0HSSCC
CX3225CA16000D0HSSCC   CX3225CA27000D0HSSCC   CX3225CA32000D0HSSCC   CX3225CA12000P0HSTC1
CX3225CA25000P0HPQCC   CX3225CA12000P0HPQCC   CX3225CA48000P0HPQCC   CX3225CA12000F0KFQCC
CX3225CA16000P0HPQCC