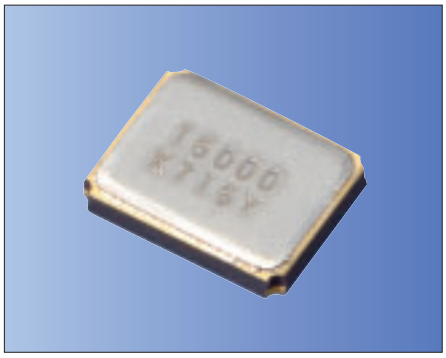
Crystal Units
Surface Mount Type CX3225SB

KYOCERA

3.2×2.5mm for Automotive



RoHS Compliant

Features

- Crystal unit for automotive electronics
- Miniature and low profile (3.2×2.5×0.55mm)
- Ceramic package
- Reflow compatible
- AEC-Q200 qualified

Applications

- Car Electronics
- High Speed Network
- Automotive Camera

How to Order

CX3225SB 12000 D0 G S S CC
① ② ③ ④ ⑤ ⑥ ⑦

① Series
② Frequency
③ Load Capacitance
④ Frequency Tolerance

D0	8 pF	G	±15×10⁻⁶

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

SS	−40 to +125°C	±50×10⁻⁶

⑦ Individual Specification
(STD Specification 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}	±15	×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 +125	°C	
Frequency Temp. Characteristics	f_{tem}	±50	×10⁻⁶	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

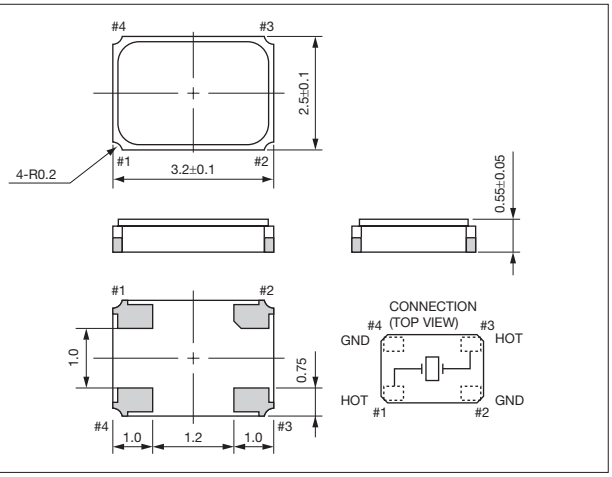
Frequency Range	Motional Series Resistance
12000≤f_{nom}<13000kHz	150Ω max.
13000≤f_{nom}<20000kHz	80Ω max.
20000≤f_{nom}≤54000kHz	50Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
12000≤f_{nom}≤54000kHz	10μW (100μW max.)

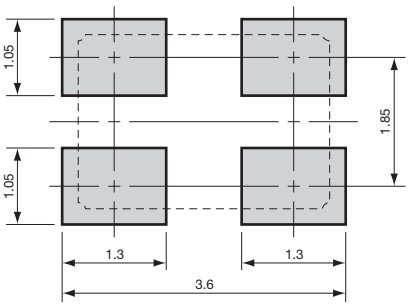
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



As of March 2018