

3.2×2.5mm for Consumer Products/ Mobile Communications/ Automotive



RoHS Compliant

Features

- Crystal unit for Consumer Products
- Miniature and low profile (3.2×2.5×0.55mm)
- Ceramic package
- Reflow compatible
- AEC-Q200 qualified
(Please contact us for Automotive use)

Applications

- Digital Electronics
- Consumer Products
- Car Electronics
- Mobile Communications, Bluetooth®, Wireless LAN

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How to Order

CX3225SB 12000 □ □ □ □ □ □ □

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

EJ -10 to +70°C ±15×10⁻⁶

LJ -30 to +85°C ±15×10⁻⁶

PS -40 to +125°C ±50×10⁻⁶

⑦ Individual Specification

Packaging (Tape & Reel 1000/ 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}	-10 to +70	-30 to +85	-40 to +125	°C	
Storage Temp. Range	T _{stg}	-40 to +85		-40 to +125	°C	
Frequency Temp. Characteristics	f _{tem}	±15		±50	×10 ⁻⁶	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

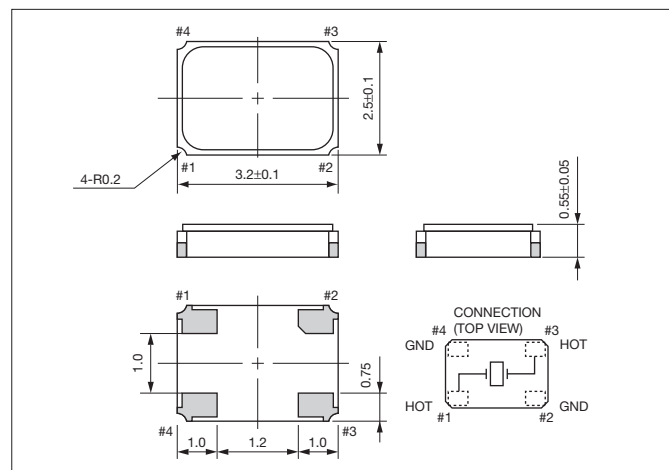
Frequency Range	Motional Series Resistance
12000≤f _{nom} <13000kHz	150Ω max.
13000≤f _{nom} <20000kHz	80Ω max.
20000≤f _{nom} ≤54000kHz	50Ω max.

Table2 Level of Drive

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

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

