

2.0×1.6mm for Consumer Products/ Mobile Communications/ Automotive



RoHS Compliant

Features

- Crystal unit for Consumer Products
- Ultra-miniature and low profile (2.0×1.6×0.40mm)
- Ceramic package
- Reflow compatible
- AEC-Q200 qualified (Please contact us for Automotive use)

Applications

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

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How to Order

CX2016DB 27000 ☐ ☐ ☐ ☐ ☐ ☐

- ① Series (CX2016DB)
② Frequency
③ Load Capacitance ④ Frequency Tolerance
⑤ Operating Temp. Range ⑥ Frequency Temp. Stability
⑦ Individual Specification

D0	8 pF	G	$\pm 15 \times 10^{-6}$
EJ	-10 to +70°C		$\pm 15 \times 10^{-6}$
LJ	-30 to +85°C		$\pm 15 \times 10^{-6}$
SS	-40 to +125°C		$\pm 50 \times 10^{-6}$

Packaging (Tape & Reel 1000/ 3000/ 15000 pcs./ reel)

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	16000 to 60000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f_{tol}	± 15	$\times 10^{-6}$	25°C $\pm$ 3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μ W	
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	$\times 10^{-6}$	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

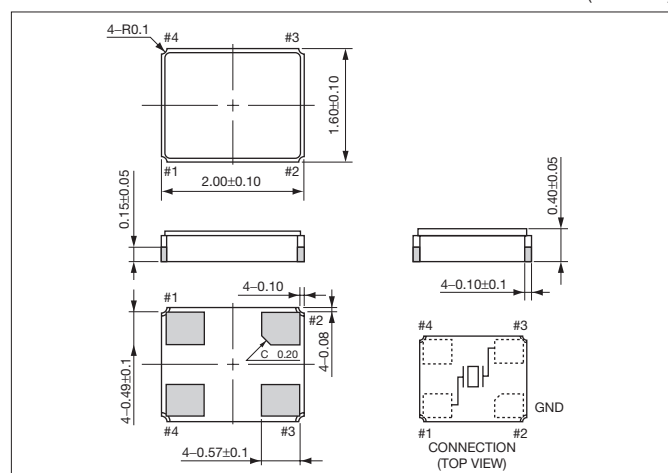
Frequency Range	Motional Series Resistance
16000 $\leq f_{nom}$ <18000kHz	200 Ω max.
18000 $\leq f_{nom}$ <26000kHz	150 Ω max.
26000 $\leq f_{nom}$ <40000kHz	60 Ω max.
40000 $\leq f_{nom}$ <60000kHz	50 Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
16000 $\leq f_{nom}$ <60000kHz	10 μ W (100 μ W max.)

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

