

# Crystal Units

## Surface Mount Type CX2016DB



2.0×1.6mm for Consumer Products/ Mobile Communications



RoHS Compliant

### Features

- Crystal unit for Consumer Products
- Ultra-miniature and low profile (2.0×1.6×0.40mm)
- Ceramic package
- Reflow compatible

### Applications

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

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### How to Order

CX2016DB 27000

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
- |           |              |          |                      |
|-----------|--------------|----------|----------------------|
| <b>D0</b> | 8 pF         | <b>G</b> | ±15×10 <sup>-6</sup> |
| <b>EJ</b> | -10 to +70°C |          | ±15×10 <sup>-6</sup> |
| <b>LJ</b> | -30 to +85°C |          | ±15×10 <sup>-6</sup> |

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

### Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f <sub>nom</sub>	16000 to 60000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f <sub>tol</sub>	±15	×10 <sup>-6</sup>	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μW	
Operating Temp. Range	T <sub>use</sub>	-10 to +70	°C	-30 to +85
Storage Temp. Range	T <sub>stg</sub>	-40 to +85	°C	
Frequency Temp. Characteristics	f <sub>tem</sub>	±15	×10 <sup>-6</sup>	Freq. deviation from the value at 25°C

Please contact us for other specifications.

Table1 Motional Series Resistance

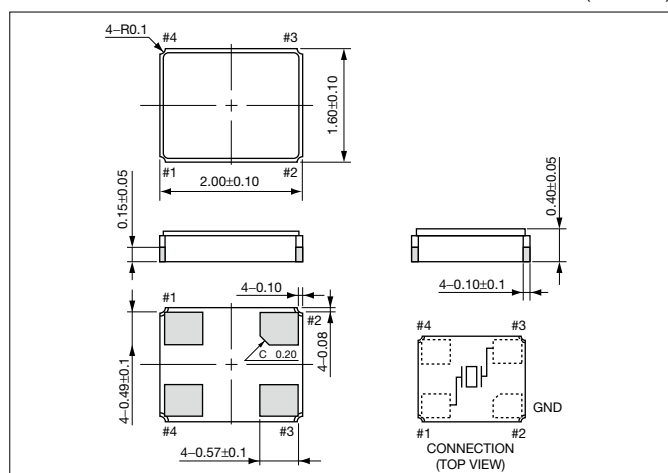
Frequency Range	Motional Series Resistance
16000 ≤ f <sub>nom</sub> < 18000 kHz	200Ω max.
18000 ≤ f <sub>nom</sub> < 26000 kHz	150Ω max.
26000 ≤ f <sub>nom</sub> < 40000 kHz	60Ω max.
40000 ≤ f <sub>nom</sub> ≤ 60000 kHz	50Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
16000 ≤ f <sub>nom</sub> ≤ 60000 kHz	10μW (100μW max.)

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

