



**Pb Free**

**RoHS Compliant**

**Features**

- Crystal unit for audio-visual, office equipment
- Ultra-miniature and low profile (2.5x2.0x0.45mm)
- Ceramic package
- A lead free product
- Reflow compatible

**Applications**

- Digital Electronics
- Audio-Visual, Office Equipment

**How to Order**

**CX2520SB 27000 D0 P E S ZZ**  
 ① ② ③ ④ ⑤ ⑥ ⑦

① Code

② Typical Frequencies

Code	Freq.(kHz)	Code	Freq.(kHz)
13560	13560.000	30000	30000.000
16000	16000.000	32000	32000.000
18000	18000.000	33000	33000.000
20000	20000.000	33333	33333.000
24000	24000.000	40000	40000.000
26000	26000.000	48000	48000.000
27000	27000.000	54000	54000.000
27120	27120.000		

\*Please inquire about frequencies other than the above.

③ Load Capacitance

<b>D0</b>	8pF
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④ Frequency Stability

<b>P</b>	$\pm 50 \times 10^{-6}$
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⑤ Operating Temperature Range

<b>E</b>	-10°C to +70°C
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⑥ Frequency Temperature Stability

<b>S</b>	$\pm 50 \times 10^{-6}$
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⑦ Special

<b>ZZ</b>	Custom Specification
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**Specifications**

Items	Symbol	Specification	Units	Remarks
Frequency Range	f <sub>nom</sub>	13560 to 60000	kHz	
Overtone Order	OT	Fundamental	—	
Frequency Tolerance	f <sub>tol</sub>	±50	×10 <sup>-6</sup>	@ 25°C
Frequency Temp. Characteristics	f <sub>tem</sub>	±50	×10 <sup>-6</sup>	ref.@ 25°C Over Operating Temp. Range
Motional Series Resistance	R1	Table 1	ohm	
Level of Drive	DL	Table 2	μW	
Load Capacitance	CL	8	pF	
Operating Temp. Range	T <sub>use</sub>	-10 to +70	°C	
Storage Temp. Range	T <sub>stg</sub>	-40 to +85	°C	

\* Please inquire about specifications other than the above.

**Table1 Motional Series Resistances**

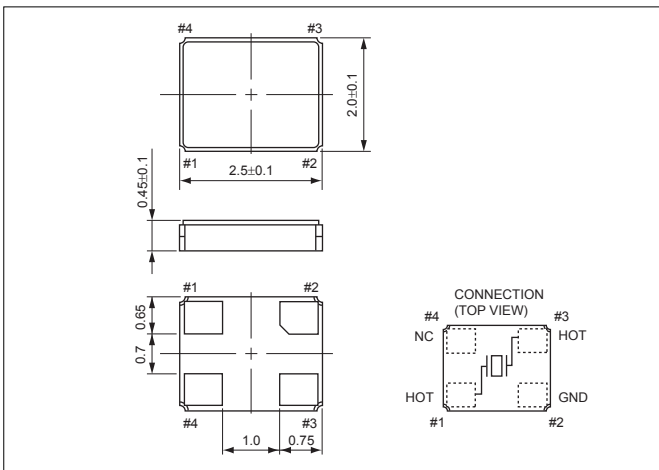
Frequency Range	Motional Series Resistance	Units
13560 to 15999kHz	300	ohm
16000 to 19999kHz	150	
20000 to 39999kHz	100	
40000 to 60000kHz	50	

**Table2 Level of Drive**

Frequency Range	Level of Drive	Units
13560 to 60000kHz	10 (100 max.)	μW

**Dimensions**

(Unit : mm)



**Recommended Land Pattern**

(Unit : mm)

