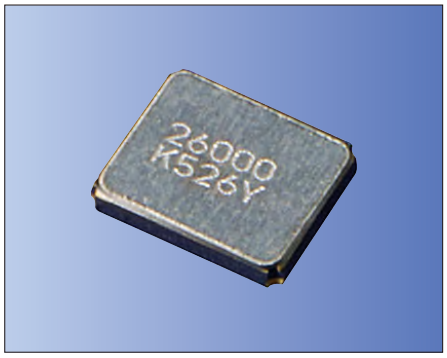
Crystal Units
Surface Mount Type CX2520SB

KYOCERA

2.5×2.0mm for Consumer Products



Pb Free RoHS Compliant

Features

- Crystal unit for Consumer Products
- Low Profile (T=0.45mm)
- Ceramic package
- A lead free product
- Reflow compatible

Applications

- Digital Electronics
- Consumer Products

How to Order

CX2520SB 13560 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency

③ Load Capacitance

B0	6 pF	—
D0	8 pF	Std.

④ Frequency Stability

G	±15×10⁻⁶	Std.

⑤Operating Temp. Range ⑥Frequency Temp. Stability

EJ	–10 to +70°C	±15×10⁻⁶	Std.

⑦ Individual Specification

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	13560 to 60000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	
Frequency Stability	f_{tol}	±15	$\times 10^{-6}$	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	°C	
Storage Temp. Range	T_{stg}	–40 to +85	°C	
Frequency Temp. Characteristics	f_{tem}	±15	$\times 10^{-6}$	Freq. deviation from the value at 25°C

∗ Please contact us for other specifications.

Typical Frequencies and Part Numbers

Frequency (kHz)	Part Number
13560.000	CX2520SB13560D0GEJZ1
16000.000	CX2520SB16000D0GEJZ1
18000.000	CX2520SB18000D0GEJZ1
20000.000	CX2520SB20000D0GEJZ1
24000.000	CX2520SB24000D0GEJZ1
26000.000	CX2520SB26000D0GEJZ1
27000.000	CX2520SB27000D0GEJZ1
27120.000	CX2520SB27120D0GEJZ1
30000.000	CX2520SB30000D0GEJZ1
32000.000	CX2520SB32000D0GEJZ1
33000.000	CX2520SB33000D0GEJZ1
33333.000	CX2520SB33333D0GEJZ1
40000.000	CX2520SB40000D0GEJZ1
48000.000	CX2520SB48000D0GEJZ1
54000.000	CX2520SB54000D0GEJZ1

Table1 Motional Series Resistance

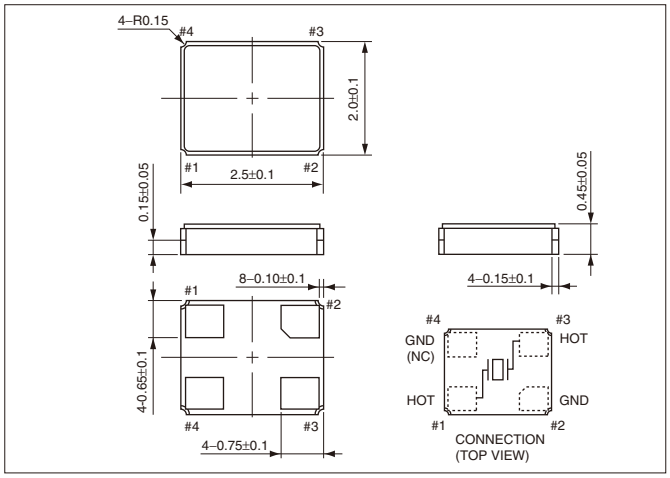
Frequency Range	Motional Series Resistance
13560 to 15999kHz	200Ω max.
16000 to 19199kHz	100Ω max.
19200 to 25999kHz	80Ω max.
26000 to 29999kHz	60Ω max.
30000 to 60000kHz	50Ω max.

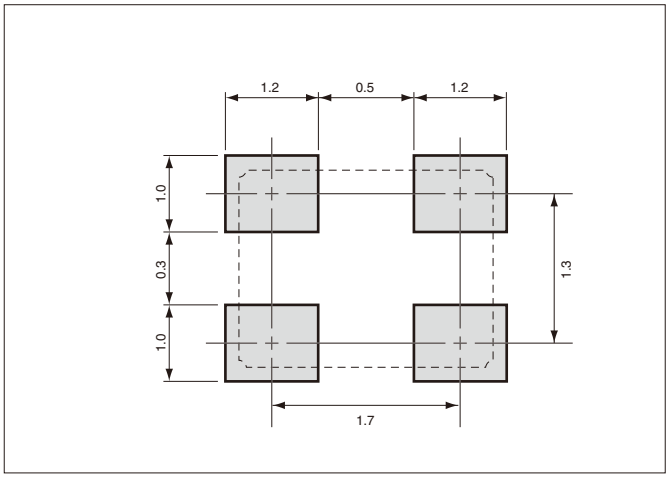
Table2 Level of Drive

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

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)