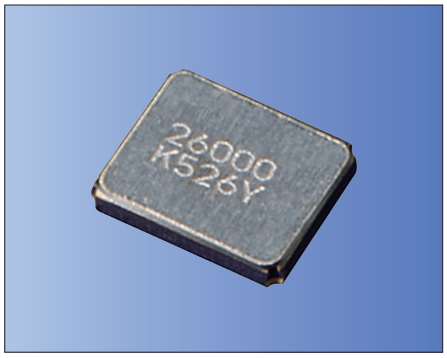
Crystal Units
Surface Mount Type CX2520SB

KYOCERA

2.5×2.0mm for Consumer Products



Pb Free RoHS Compliant

Features

- Crystal unit for Consumer Products
- Ultra-miniature and low profile (2.5×2.0×0.45mm)
- 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

P	±50×10⁻⁶	Std.

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

ES	−10 to +70°C	±50×10⁻⁶	Std.

⑦ Individual Specification... Std.Spec. as "ZZ"

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	±50	×10⁻⁶	@ 25°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	±50	×10⁻⁶	ref.@ 25°C over operating temperature range

* Please contact us for other specifications.

Typical Frequencies and Part Numbers

Frequency (kHz)	Standard Part Number
13560.000	CX2520SB13560D0PESZZ
16000.000	CX2520SB16000D0PESZZ
18000.000	CX2520SB18000D0PESZZ
20000.000	CX2520SB20000D0PESZZ
24000.000	CX2520SB24000D0PESZZ
26000.000	CX2520SB26000D0PESZZ
27000.000	CX2520SB27000D0PESZZ
27120.000	CX2520SB27120D0PESZZ
30000.000	CX2520SB30000D0PESZZ
32000.000	CX2520SB32000D0PESZZ
33000.000	CX2520SB33000D0PESZZ
33333.000	CX2520SB33333D0PESZZ
40000.000	CX2520SB40000D0PESZZ
48000.000	CX2520SB48000D0PESZZ
54000.000	CX2520SB54000D0PESZZ

Table1 Motional Series Resistance

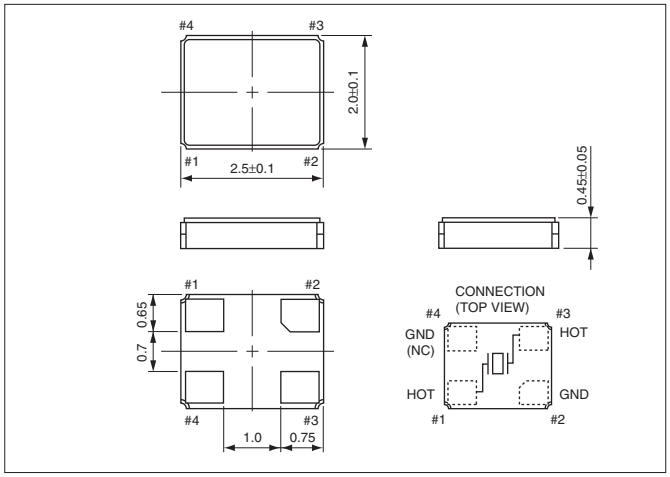
Frequency Range	Motional Series Resistance	Units
13560 to 15999kHz	300 max.	ohm
16000 to 19999kHz	150 max.	
20000 to 39999kHz	100 max.	
40000 to 60000kHz	50 max.	

Table2 Level of Drive

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

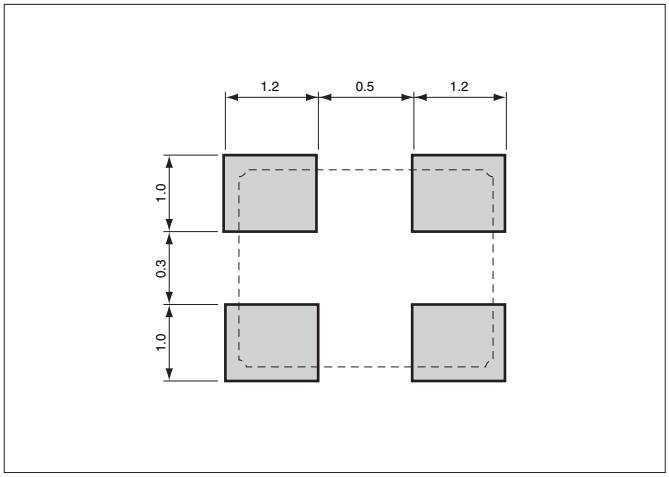
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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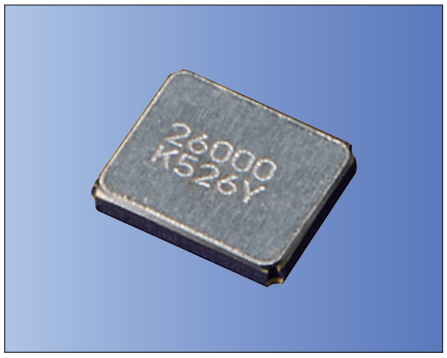
Crystal Units
Surface Mount Type CX2520SB

KYOCERA

2.5×2.0mm for Mobile Communications



Pb Free RoHS Compliant

Features

- Reference frequency for telecommunication systems
- Reflow compatible
- Using ceramic package resulting in high reliability
- Small and low profile

Applications

- Mobile Communications, Bluetooth, Wireless LAN

How to Order

CX2520SB 26000 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency

③ Load Capacitance ④ Frequency Stability

B0	6 pF	—	F	±10×10⁻⁶	Std.
D0	8 pF	Std.	G	±15×10⁻⁶	—

⑤Operating Temp. Range ⑥Frequency Temp. Stability

FF	–20 to +70°C	±10×10⁻⁶	—
LJ	–30 to +85°C	±15×10⁻⁶	Std.

⑦ Individual Specification... Std.Spec. as "ZZ"

Specifications

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24000.000	CX2520SB24000D0FLJZZ
26000.000	CX2520SB26000D0FLJZZ
27120.000	CX2520SB27120D0FLJZZ
32000.000	CX2520SB32000D0FLJZZ
38400.000	CX2520SB38400D0FLJZZ
40000.000	CX2520SB40000D0FLJZZ
44000.000	CX2520SB44000D0FLJZZ
54000.000	CX2520SB54000D0FLJZZ

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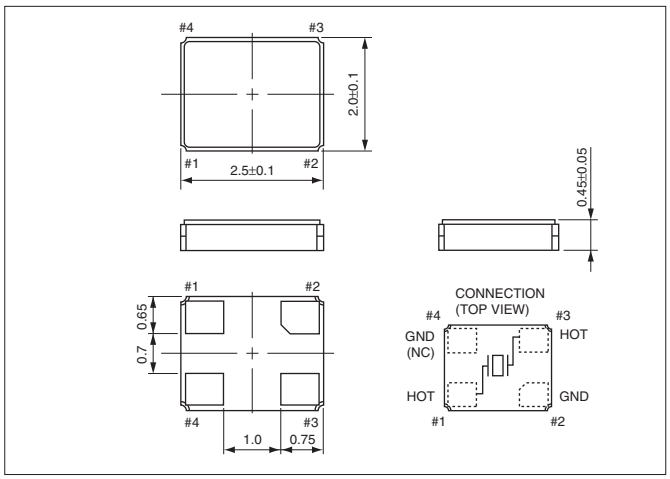
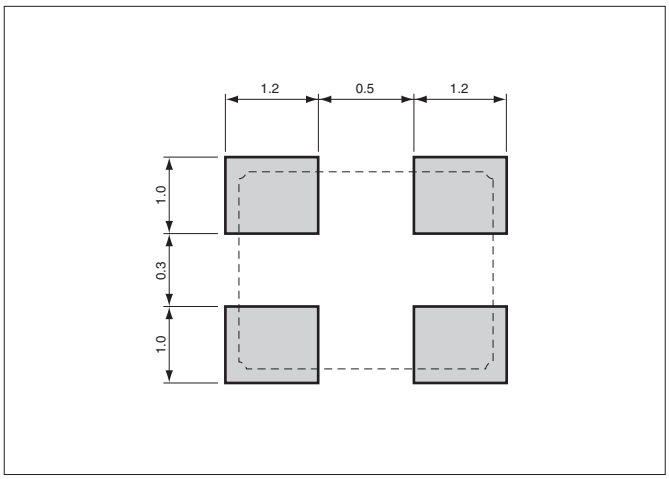


Recommended Land Pattern

(Unit: mm)



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