Crystal Units
Surface Mount Type CX5032GB (CX-53F)

KYOCERA

5.0×3.2mm for Consumer Products

RoHS Compliant

Features

- Crystal unit for Consumer Products
- Small and low profile (5.0×3.2×1.0mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible

Applications

- Digital Electronics
- Consumer Products
- Car audio and accessories

How to Order

CX5032GB 27000 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency

③ Load Capacitance

H0	12 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	8000 to 54000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	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
10000.000	CX5032GB10000H0PESZZ
12000.000	CX5032GB12000H0PESZZ
14318.180	CX5032GB14318H0PESZZ
14745.600	CX5032GB14745H0PESZZ
16934.400	CX5032GB16934H0PESZZ
18432.000	CX5032GB18432H0PESZZ
22579.000	CX5032GB22579H0PESZZ
24000.000	CX5032GB24000H0PESZZ
24545.450	CX5032GB24545H0PESZZ
24576.000	CX5032GB24576H0PESZZ
27000.000	CX5032GB27000H0PESZZ
36000.000	CX5032GB36000H0PESZZ
48000.000	CX5032GB48000H0PESZZ
54000.000	CX5032GB54000H0PESZZ

Table1 Motional Series Resistance

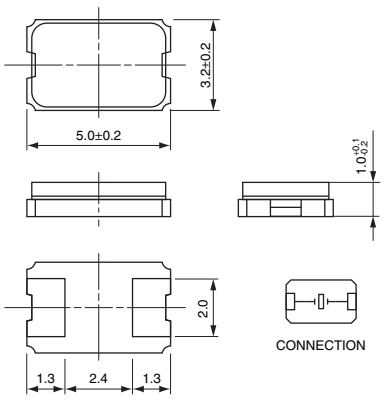
Frequency Range	Motional Series Resistance	Units
8000 to 9999kHz	300 max.	ohm
10000 to 11999kHz	200 max.	
12000 to 13999kHz	150 max.	
14000 to 29999kHz	100 max.	
30000 to 54000kHz	50 max.	

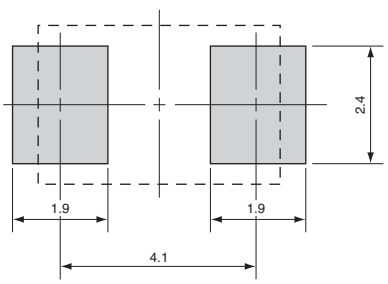
Table2 Level of Drive

Frequency Range	Drive Level	Units
8000 to 15999kHz	10 (500 max.)	μW
16000 to 24999kHz	10 (300 max.)	
25000 to 54000kHz	10 (100 max.)	

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)