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 (T=1.1mm max.) (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

H	±20×10⁻⁶	Std.

⑤Operating Temp. Range ⑥Frequency Temp. Stability

EQ	–10 to +70°C	±30×10⁻⁶	Std.

⑦ Individual Specification

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	7372.8 to 54000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	pF	
Frequency Stability	f_{tol}	±20	$\times 10^{-6}$	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}	±30	$\times 10^{-6}$	Freq. deviation from the value at 25°C

∗ Please contact us for other specifications.

Typical Frequencies and Part Numbers

Frequency (kHz)	Part Number
10000.000	CX5032GB10000H0HEQZ1
12000.000	CX5032GB12000H0HEQZ1
14318.180	CX5032GB14318H0HEQZ1
14745.600	CX5032GB14745H0HEQZ1
16934.400	CX5032GB16934H0HEQZ1
18432.000	CX5032GB18432H0HEQZ1
22579.000	CX5032GB22579H0HEQZ1
24000.000	CX5032GB24000H0HEQZ1
24545.450	CX5032GB24545H0HEQZ1
24576.000	CX5032GB24576H0HEQZ1
27000.000	CX5032GB27000H0HEQZ1
36000.000	CX5032GB36000H0HEQZ1
48000.000	CX5032GB48000H0HEQZ1
54000.000	CX5032GB54000H0HEQZ1

Table1 Motional Series Resistance

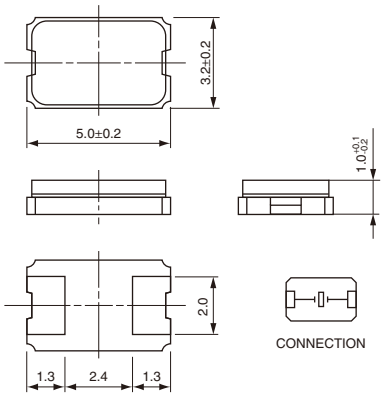
Frequency Range	Motional Series Resistance
7372.8 to 9499kHz	300Ω max.
9500 to 9999kHz	200Ω max.
10000 to 13999kHz	150Ω max.
14000 to 19999kHz	100Ω max.
20000 to 29999kHz	70Ω max.
30000 to 54000kHz	50Ω max.

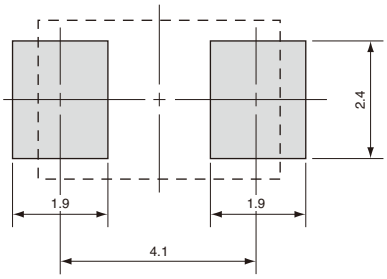
Table2 Level of Drive

Frequency Range	Level of Drive
7372.8 to 15999kHz	10μW (500μW max.)
16000 to 24999kHz	10μW (300μW max.)
25000 to 54000kHz	10μW (100μW max.)

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)