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

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
- 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
④ Frequency Tolerance

H0	12 pF	H	±20×10⁻⁶

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

EQ	−10 to +70°C	±30×10⁻⁶

⑦ Individual Specification

Packaging (Tape & Reel 3000/ 1000 pcs./ reel)

Specifications

Item	Symbol	Specification		Units	Remarks
Frequency Range	f_{nom}	7372.8 to 54000		kHz	
Overtone Order	OT	Fundamental		—	
Load Capacitance	CL	8	12	pF	
Frequency Tolerance	f_{tol}	±20		×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		×10⁻⁶	Freq. deviation from the value at 25°C

• Please contact us for other specifications.

Table1 Motional Series Resistance

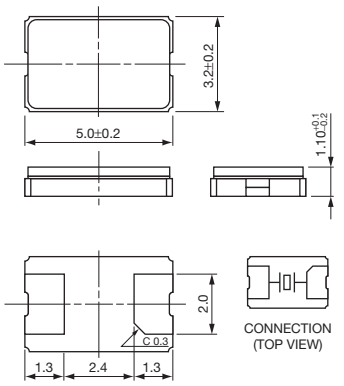
Frequency Range	Motional Series Resistance
7372.8≤f_{nom}< 9500kHz	300Ω max.
9500≤f_{nom}<10000kHz	200Ω max.
10000≤f_{nom}<14000kHz	150Ω max.
14000≤f_{nom}<20000kHz	100Ω max.
20000≤f_{nom}<30000kHz	70Ω max.
30000≤f_{nom}≤54000kHz	50Ω max.

Table2 Level of Drive

Frequency Range	Level of Drive
7372.8≤f_{nom}<16000kHz	10μW (500μW max.)
16000≤f_{nom}<25000kHz	10μW (300μW max.)
25000≤f_{nom}≤54000kHz	10μW (100μW max.)

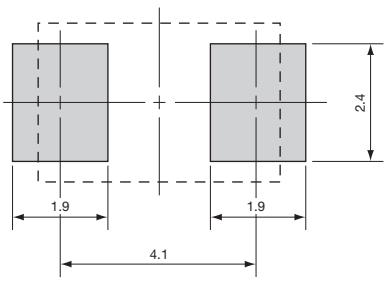
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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