

5.0×3.2mm for Consumer Products



RoHS Compliant

**Features**

- Crystal unit for Consumer Products
- Small and low profile (5.0×3.2×1.3mm)
- Ceramic package
- Reflow compatible

**Applications**

- Digital Electronics
- Consumer Products

**How to Order**

**CX5032GA 08000 HO H E Q Z1**  
 ① ② ③ ④ ⑤ ⑥ ⑦

① Series	② Frequency	③ Load Capacitance	④ Frequency Tolerance
<b>HO</b>	12 pF	<b>Q</b>	±20×10 <sup>-6</sup>
⑤ Operating Temp. Range	⑥ Frequency Temp. Stability		
<b>EQ</b>	-10 to +70°C	±30×10 <sup>-6</sup>	

⑦ Individual Specification  
(STD Standard is "Z1")

Packaging (Tape & Reel 1000 pcs./ reel)

**Specifications**

Item	Symbol	Specification	Units	Remarks
Frequency Range	f <sub>nom</sub>	8000 to 40000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	pF	Please contact us for other Load Capacitance.
Frequency Tolerance	f <sub>tol</sub>	±20	×10 <sup>-6</sup>	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μW	
Operating Temp. Range	T <sub>use</sub>	-10 to +70	°C	
Storage Temp. Range	T <sub>stg</sub>	-40 to +85	°C	
Frequency Temp. Characteristics	f <sub>tem</sub>	±30	×10 <sup>-6</sup>	Freq. deviation from the value at 25°C

Please contact us for other specifications.

**Table1 Motional Series Resistance**

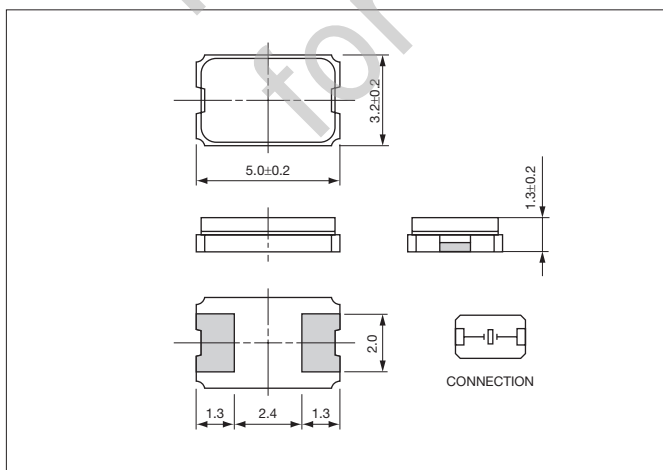
Frequency Range	Motional Series Resistance
8000 ≤ f <sub>nom</sub> < 9500kHz	300Ω max.
9500 ≤ f <sub>nom</sub> < 10000kHz	200Ω max.
10000 ≤ f <sub>nom</sub> < 14000kHz	150Ω max.
14000 ≤ f <sub>nom</sub> < 20000kHz	100Ω max.
20000 ≤ f <sub>nom</sub> < 30000kHz	70Ω max.
30000 ≤ f <sub>nom</sub> ≤ 40000kHz	50Ω max.

**Table2 Level of Drive**

Frequency Range	Level of Drive
8000 ≤ f <sub>nom</sub> < 16000kHz	10μW (500μW max.)
16000 ≤ f <sub>nom</sub> < 25000kHz	10μW (300μW max.)
25000 ≤ f <sub>nom</sub> ≤ 40000kHz	10μW (100μW max.)

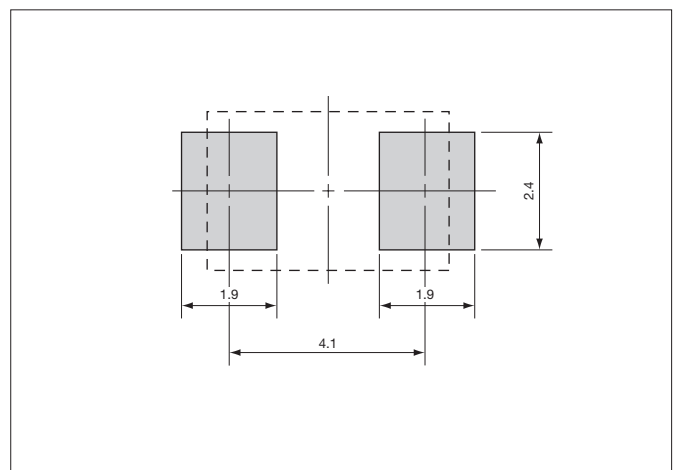
**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)



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