Crystal Units
Surface Mount Type CX8045GA

KYOCERA

8.0×4.5mm for Automotive

RoHS Compliant

Features

- Crystal unit for automotive electronics
- Small and low profile (8.0×4.5×1.8mm)
- Ceramic package
- Product with lead free terminations
- Reflow compatible
- AEC-Q200 certified

Applications

- ECU

How to Order

CX8045GA 08000 □□ □ □ □ □□

① ② ③ ④ ⑤ ⑥ ⑦

① Series ② Frequency

③ Load Capacitance ④ Frequency Stability

D0	8 pF	—	P	±50×10⁻⁶	—
H0	12 pF	Std.	Q	±100×10⁻⁶	Std.

⑤ Operating Temp. Range ⑥ Frequency Temp. Stability

TW	–40 to +150°C	±200×10⁻⁶	Std.

⑦ Individual Specification

Specifications

Item	Symbol	Specification	Units	Remarks
Frequency Range	f_{nom}	4000 to 30000	kHz	
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	12	pF	
Frequency Stability	f_{tol}	±100	×10⁻⁶	25°C±3°C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	Table 2	μW	
Operating Temp. Range	T_{use}	–40 to +150	°C	
Storage Temp. Range	T_{stg}	–40 to +150	°C	
Frequency Temp. Characteristics	f_{tem}	±200	×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
8000.000	CX8045GA08000H0QTWZ1
9843.750	CX8045GA09843H0QTWZ1
10000.000	CX8045GA10000H0QTWZ1
12000.000	CX8045GA12000H0QTWZ1
13560.000	CX8045GA13560H0QTWZ1
14000.000	CX8045GA14000H0QTWZ1
16000.000	CX8045GA16000H0QTWZ1
18000.000	CX8045GA18000H0QTWZ1
20000.000	CX8045GA20000H0QTWZ1
24000.000	CX8045GA24000H0QTWZ1
25000.000	CX8045GA25000H0QTWZ1
30000.000	CX8045GA30000H0QTWZ1

Table1 Motional Series Resistance

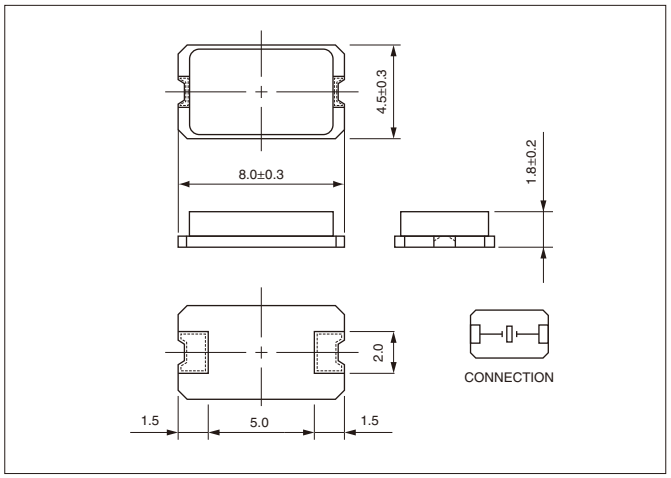
Frequency Range	Motional Series Resistance
4000 to 7199kHz	300Ω max.
7200 to 9999kHz	200Ω max.
10000 to 11999kHz	150Ω max.
12000 to 30000kHz	100Ω max.

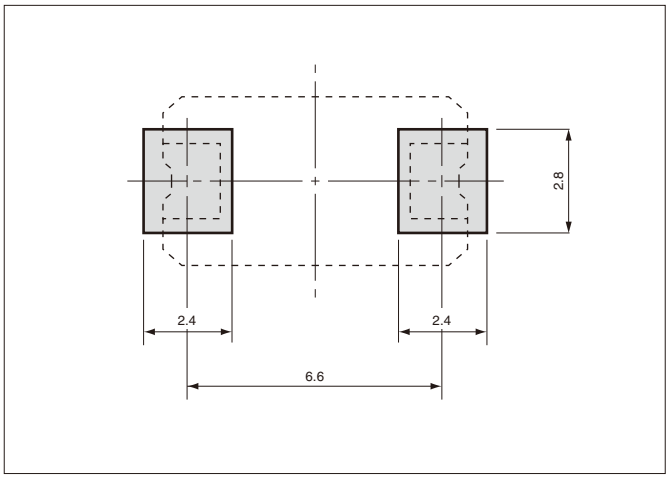
Table2 Level of Drive

Frequency Range	Level of Drive
4000 to 15999kHz	10μW (500μW max.)
16000 to 24999kHz	10μW (300μW max.)
25000 to 30000kHz	10μW (100μW max.)

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)