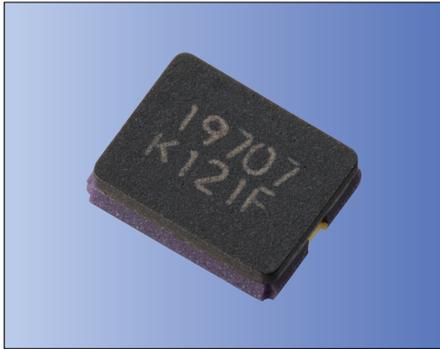




3.2 × 2.5mm for Automotive



How to Order

CX3225GA 25000 D0 G S S CC
 ① ② ③④ ⑤ ⑥ ⑦ ⑧

Packaging
 (Tape & Reel 3000 pcs./reel)

- ① Series (Type and Size)
- ② Frequency (8,000 to 54,000kHz)
- ③④ Load Capacitance (Unit:pF) Ex.: D1:8.1pF

⑤ Frequency Tolerance

G	±15×10 ⁻⁶
H	±20×10 ⁻⁶
J	±25×10 ⁻⁶
K	±30×10 ⁻⁶
M	±40×10 ⁻⁶
P	±50×10 ⁻⁶
W	All Over
Z	Special suffix

③ Integer part		④ After the decimal point	
D	8	0	.0
E	9	1	.1
F	10	2	.2
G	11	3	.3
H	12	4	.4
Z	Special suffix	5	.5
		6	.6
		7	.7
		8	.8
		9	.9



Features

- Crystal unit for automotive electronics
- Improved solderability
- Miniature and low profile (3.2 × 2.5 × 0.85mm)
- Ceramic package
- Reflow compatible
- Acceptable heat cycle solder junction for 3000 cycles (-40 to +125° C)

⑥ Operating Temp. Range ⑦ Frequency Temp. Stability

*Frequency of 12,000 kHz or higher is supported. Please contact us for frequencies between 8,000 and 10,000 kHz.

⑥ \ ⑦		⑦					
		Q	R	S	T	V	W
		±30ppm	±40ppm	±50ppm	±100ppm	±150ppm	±200ppm
L	-30 to 85°C	✓	✓	✓	✓	✓	✓
P	-40 to 85°C	✓	✓	✓	✓	✓	✓
R	-40 to 105°C		✓	✓	✓	✓	✓
S	-40 to 125°C			✓	✓	✓	✓
T	-40 to 150°C				✓	✓	✓

Applications

- Automotive (ECU, High-Speed Automotive Network, TPMS)

⑧ Individual Specification (STD Specification is "CC" .)

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f _{nom}	8000 to 54000	kHz	Please contact us for other frequency range.
Overtone Order	OT	Fundamental	—	
Load Capacitance	CL	8	pF	Please contact us for other CL requirements.
Frequency Tolerance	f _{tol}	±50	×10 ⁻⁶	25° C ± 3° C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10μW(200μW max.)	μ W	
Operating Temp. Range	T _{use}	-40 to +150	° C	
Storage Temp. Range	T _{stg}	-40 to +150	° C	
Frequency Temp. Characteristics	f _{tem}	±150	× 10 ⁻⁶	Freq. deviation from the value at 25° C
Shunt capacitance	C0	3.0max.	pF	

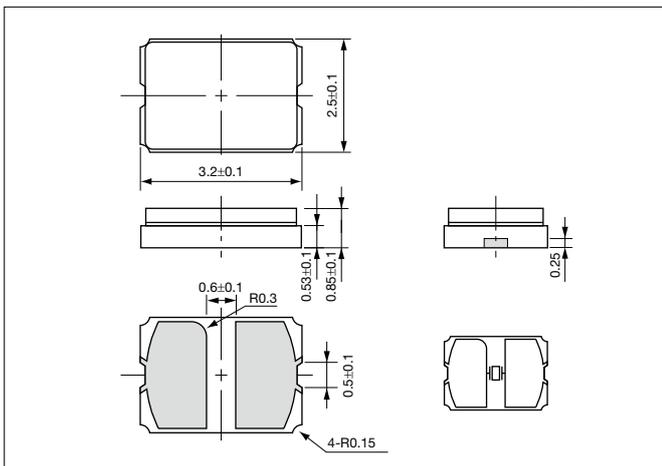
◆Table 1 Motional Series Resistance ESR (C1)

Frequency (MHz)	ESR (Ohm)
8 ≤ F < 9.8	500
9.8 ≤ F < 14	200
14 ≤ F < 16	120
16 ≤ F ≤ 54	100

Please contact us for other specifications.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

