



2.0 × 1.6mm for Automotive



How to Order

CX2016SA **25000** **D0** **G** **S** **S** **HH**
 ① ② ③④ ⑤ ⑥ ⑦ ⑧

- ① Series (Type and Size)
- ② Frequency (16,000 to 60,000kHz)
- ③④ Load Capacitance (Unit:pF) Ex.: D1:8.1pF

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

Packaging
(Tape & Reel 3000/ 15000 pcs./ reel)

⑤ Frequency Tolerance

F	±10×10 ⁻⁶
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

Features

- Support a wide range of applications
- Miniature and low profile
(2.05 × 1.65 × 0.45mm)
- Ceramic package
- Reflow compatible

Applications

- Automotive (ECU, Automotive Camera)

⑥ Operating Temp. Range ⑦ Frequency Temp. Stability

⑥	⑦	J	L	Q	R	S	T	V	W
		±15ppm	±20ppm	±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						✓	✓	✓

⑧ Individual Specification (STD Specification are "HH" and "JJ" *)

* "JJ" is made overseas. Please contact us for supported frequencies.

Specifications

Item	Symbol	Specification	Unit	Remarks
Frequency Range	f _{nom}	16000 to 60000	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}	±15	×10 ⁻⁶	25° C ± 3° C
Motional Series Resistance	R1	Table 1	ohm	
Drive Level	DL	10μW(200μW max.)	μW	
Operating Temp. Range	T _{use}	-40 to +125 -40 to +150 -30 to +85	°C	
Storage Temp. Range	T _{stg}	-40 to +150	°C	
Frequency Temp. Characteristics	f _{tem}	±50 ±200 ±20	×10 ⁻⁶	Freq. deviation from the value at 25° C
Shunt capacitance	C0	2.0max.	pF	

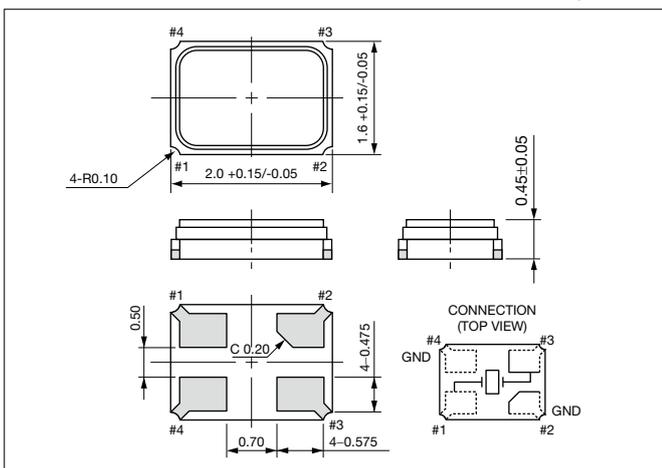
◆Table 1 Motional Series Resistance ESR (C1)

Frequency (MHz)	ESR (Ohm)
16 ≤ F < 18	200
18 ≤ F < 20	150
20 ≤ F < 24	100
24 ≤ F < 26	80
26 ≤ F < 40	60
40 ≤ F ≤ 60	50

Please contact us for other specifications.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

