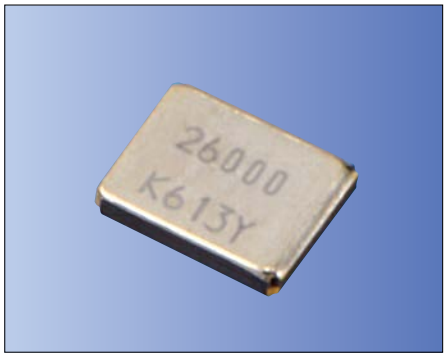
2.0 × 1.6mm for Consumer Products



RoHS Compliant
PSL: R4Y MSL1

Features

- Crystal unit for Consumer Products
- Miniature and low profile (2.0 × 1.6 × 0.40mm)
- Ceramic package
- Reflow compatible

Applications

- Consumer Products
- Wireless Comm.

How to Order

CX2016DB 27000 □□ □ □ □ □ HH
① ② ③④ ⑤ ⑥ ⑦ ⑧

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

①Series (Type and Size)
②Frequency (20,000 to 60,000kHz)
③④Load Capacitance (Unit:pF) Ex.: D1:8.1pF

③Integer part	
D	8
E	9
F	10
G	11
H	12
Z	Special suffix

④After the decimal point	
0	.0
1	.1
2	.2
3	.3
4	.4
5	.5
6	.6
7	.7
8	.8
9	.9

⑤Frequency 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

⑥Operating Temp. Range ⑦Frequency Temp. Stability

⑥ \ ⑦		J ±15ppm	L ±20ppm	N ±25ppm	Q ±30ppm	R ±40ppm	S ±50ppm
B	0 to 70°C	✓	✓	✓	✓	✓	✓
E	-10 to 70°C	✓	✓	✓	✓	✓	✓
F	-20 to 70°C	✓	✓	✓	✓	✓	✓
L	-30 to 85°C	✓	✓	✓	✓	✓	✓
P	-40 to 85°C		✓	✓	✓	✓	✓

⑧Individual 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	20000 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	10 μ W(100 μ W max.)	μ W	
Operating Temp. Range	T_use	− 30 to +85	°C	
Storage Temp. Range	T_stg	− 40 to +85	°C	
Frequency Temp. Characteristics	f_tem	± 20	× 10⁻⁶	Freq. deviation from the value at 25°C
Shunt capacitance	C0	2.0max.	pF	

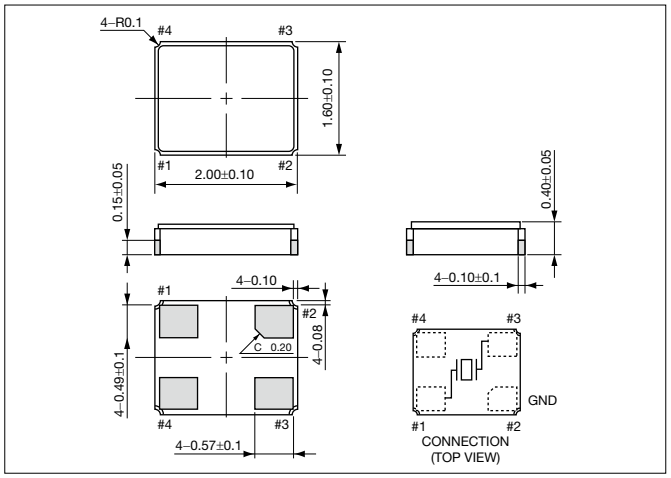
Please contact us for other specifications.

Table 1 Motional Series Resistance
ESR (CI) STD Specification

Frequency (MHz)	ESR (Ohm)
20≦F<24	100
24≦F<26	80
26≦F<40	60
40≦F≦60	50

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

