



Pb Free

RoHS Compliant

### Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage  $V_{DD} = 5.0V$
- $\pm 25 \times 10^{-6}$  available

### How to Order

**KC5032C 25.0000 C 5 0 D 00**  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (5.0×3.2mm SMD)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (5.0V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/Enable Function (45/55%, Disable)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000pcs./reel)

**Table 1**

Freq. Tol. Code	Freq. Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note
0	$\pm 50$	-10 to +70	Standard specifications
S	$\pm 30$		
U	$\pm 25$	-40 to +85	With only certain frequencies
F	$\pm 100$		
G	$\pm 50$		

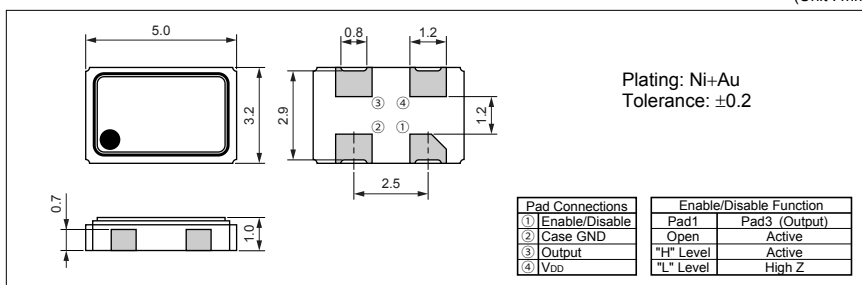
### Specifications

Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range	Fo		1.8	50	MHz	
Frequency Tolerance	F <sub>tol</sub>	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration	Op. Temp.: -40 to +85°C	-100	+100	$\times 10^{-6}$
			Op. Temp.: -10 to +70°C / -40 to +85°C	-50	+50	
			Op. Temp.: -10 to +70°C / -40 to +85°C	-30	+30	
			Op. Temp.: -10 to +70°C	-25	+25	
Storage Temperature Range	T <sub>stg</sub>		-55	+125	°C	
Operating Temperature Range	T <sub>use</sub>	Standard Specifications	-10	+70	°C	
		Extend (Option)	-40	+85		
Max. Supply Voltage	—		-0.5	+7.0	V	
Supply Voltage	V <sub>DD</sub>	Freq. Tol.Code: 0, S, F	4.5	5.5	V	
		Freq. Tol.Code: U, G	4.75	5.25		
Current Consumption (Maximum Loaded)	I <sub>DD</sub>	1.8 ≤ Fo ≤ 20MHz	—	25	mA	
		20 < Fo ≤ 40MHz	—	35		
		40 < Fo ≤ 50MHz	—	50		
Disable Current	I <sub>dis</sub>		—	30	mA	
Symmetry	SYM	@50% V <sub>DD</sub>	45	55	%	
Rise/ Fall Time (10% V <sub>DD</sub> to 90% V <sub>DD</sub> Maximum Loaded)	T <sub>tr</sub> /T <sub>f</sub>	1.8 ≤ Fo ≤ 26MHz	—	10	nS	
		26 < Fo ≤ 50MHz	—	8		
Output Voltage-"L"	V <sub>OL</sub>	I <sub>OL</sub> = 16mA	—	10% V <sub>DD</sub>	V	
Output Voltage-"H"	V <sub>OH</sub>	I <sub>OH</sub> = -16mA	90% V <sub>DD</sub>	—	V	
Output Load	L <sub>CMOS</sub>	CMOS Output	—	50	pF	
Input Voltage Range	V <sub>IN</sub>		0	V <sub>DD</sub>	V	
Input Voltage-"L"	V <sub>IL</sub>		—	0.8	V	
Input Voltage-"H"	V <sub>IH</sub>		2.2	—	V	
Disable Time	—		—	100	nS	
Enable Time	—		—	100	nS	
Start-up Time	ST	@ Minimum operation voltage to be 0 sec.	—	10	mS	

Note: All electrical characteristics are defined at the maximum load and operating temperature range.  
 Please contact us for inquiries about operating temperature range, available frequencies and other conditions.

### Dimensions

(Unit : mm)



### Recommended Land Pattern

(Unit : mm)

