



RoHS Compliant

## Features

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

Table 1

Freq. Tol. Code	$\times 10^{-6}$	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	$\pm 50$		

## 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/ INH Function (45/ 55%, Disable)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

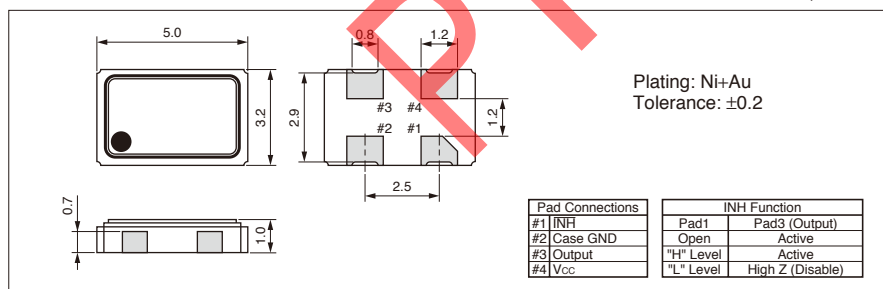
## Specifications

Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range	$f_o$		1.8	50	MHz	
Frequency Tolerance	$f_{tol}$	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @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	-30	+30	
			Op. Temp.: -10 to +70°C	-25	+25	
Storage Temperature Range	$T_{stg}$		-55	+125	°C	
Operating Temperature Range	$T_{use}$	Standard Specifications	-10	+70	°C	
		Extend (Option)	-40	+85		
Max. Supply Voltage	-		-0.5	+7	V	
Supply Voltage	$V_{CC}$	Freq. Tol.Code: 0, S, F	4.5	5.5	V	
		Freq. Tol.Code: U, G	4.75	5.25		
Current Consumption (Maximum Loaded)	$I_{CC}$	1.8< $f_o$ <20MHz	-	25	mA	
		20< $f_o$ <40MHz	-	35		
		40< $f_o$ <50MHz	-	50		
Disable Current	$I_{dis}$		-	20	mA	
Symmetry	SYM	@50% $V_{CC}$	45	55	%	
Rise/ Fall Time (10% $V_{CC}$ to 90% $V_{CC}$ Maximum Loaded)	$t_r/ t_f$	1.8< $f_o$ <26MHz	-	10	ns	
		26< $f_o$ <50MHz	-	8		
Low Level Output Voltage	$V_{OL}$	$I_{OL}=16mA$	-	10% $V_{CC}$	V	
High Level Output Voltage	$V_{OH}$	$I_{OH}=-16mA$	90% $V_{CC}$	-	V	
CMOS Load	$L_{CMOS}$	CMOS Output	-	50	pF	
Input Voltage Range	$V_{IN}$		0	$V_{CC}$	V	
Low Level Input Voltage	$V_{IL}$		-	0.8	V	
High Level Input Voltage	$V_{IH}$		2.2	-	V	
Disable Time	$t_{dis}$		-	100	ns	
Enable Time	$t_{ena}$		-	100	ns	
Start-up Time	$t_{str}$	@Minimum operating voltage to be 0 sec.	-	10	ms	
1 Sigma Jitter	$J_{Sigma}$	Measured with Wavecrest DTS-2079 VSI 6.3.1	1.8< $f_o$ <40MHz	-	8	ps
			40< $f_o$ <50MHz	-	5	ps
Peak to Peak Jitter	$J_{PK-PK}$		1.8< $f_o$ <40MHz	-	80	ps
			40< $f_o$ <50MHz	-	40	ps

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

## Dimensions

(Unit: mm)



## Recommended Land Pattern

(Unit: mm)

