

Clock Oscillators Surface Mount Type KC5032A-C5 Series

KYOCERA

CMOS/ 5.0V/ 5.0×3.2mm



Features

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

Table 1

Freq. Tol. Code	$\times 10^{-6}$	Operating Temperature Range (°C)	Note
0	± 50	-10 to +70	Standard specifications
S	± 30		
U	± 25		
F	± 100	-40 to +85	With only certain frequencies
G	± 50		
6	± 50	-40 to +105	

How to Order

KC5032A 25.0000 C 5 0 E 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (5V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ INH Function (45/ 55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

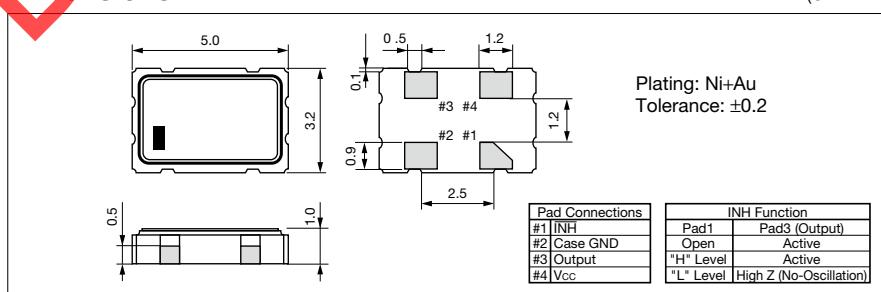
Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo		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
			Op. Temp.: -10 to +70°C/-40 to +85°C/-40 to +105°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}		-40	+105	°C
Max. Supply Voltage	—		-0.6	+6.5	V
Supply Voltage	V _{CC}		+4.5	+5.5	V
Current Consumption (Loaded)	I _{CC}	1.8≤fo≤20MHz	—	12	mA
		20<fo≤40MHz	—	17	
		40<fo≤50MHz	—	20	
Stand-by Current	I _{std}		—	10	μA
Symmetry	SYM	@50% V _{CC}	45	55	%
Rise/ Fall Time (10% V_{CC} to 90% V_{CC} Maximum Loaded)	tr/ tf	1.8≤fo≤26MHz	—	10	ns
		26<fo≤50MHz	—	8	
Low Level Output Voltage	V _{OL}	I _{OL} = 4mA	—	10% V _{CC}	V
High Level Output Voltage	V _{OH}	I _{OH} = -4mA	90% V _{CC}	—	V
Output Load	L _{CMOS}		—	50	pF
Input Voltage Range	V _{IN}		0	V _{CC}	V
Low Level Input Voltage	V _{IL}		—	30% V _{CC}	V
High Level Input Voltage	V _{IH}		70% V _{CC}	—	V
Disable Time	t _{dis}		—	150	ns
Enable Time	t _{ena}		—	5	ms
Start-up Time	t _{str}	@Minimum operating voltage to be 0 sec.	—	10	ms
1 Sigma Jitter	J _{Sigma}	Measured with Wavecrest SIA-3000	1.8≤fo≤40MHz	—	ps
			40<fo≤50MHz	—	
Peak to Peak Jitter	J _{PK-PK}	Measured with Wavecrest SIA-3000	1.8≤fo≤40MHz	—	ps
			40<fo≤50MHz	—	

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



Recommended Land Pattern

