

CMOS/ 1.8V, 2.5V, 3.3V/ 5.0×3.2mm



RoHS Compliant

Features

- Wide operating voltage range 1.6 to 3.3V
- $\pm 25 \times 10^{-6}$ available
- Highly reliable with seam welding
- Miniature ceramic package
- CMOS output

Table 1

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

How to Order

KC5032A 100.000 C 1 0 E 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 (1.8V, 2.5V, 3.3V Compatible)
- 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

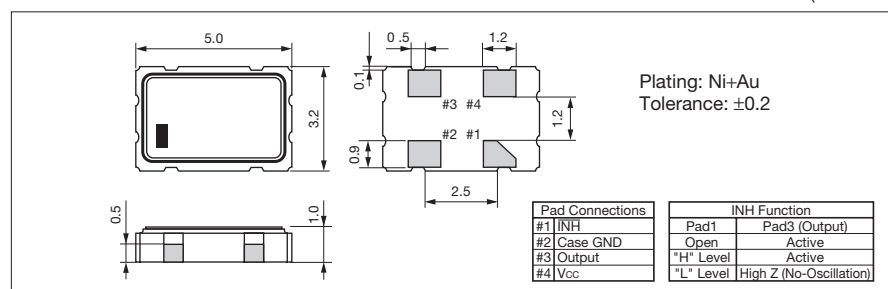
Item	Symbol	Conditions		Min.	Max.	Units
Output Frequency Range	fo	fo>50MHz		50	135	MHz
Frequency Tolerance	f_tol	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration	Op. Temp.: -40 to +85°C	-100	+100	×10 ⁻⁶
			Op. Temp.: -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	—			-0.3	+4.0	V
Supply Voltage	Vcc			+1.6	+3.63	V
Current Consumption (Loaded) (1.6≤Vcc≤2.0V)	Icc	50<fo≤85MHz		—	10	mA
		85<fo≤105MHz		—	15	
		105<fo≤135MHz		—	16	
50<fo≤85MHz			—	14		
85<fo≤105MHz			—	17		
105<fo≤135MHz			—	18		
Current Consumption (Loaded) (2.0<Vcc≤2.8V)		50<fo≤85MHz		—	17	
		85<fo≤105MHz		—	19	
		105<fo≤135MHz		—	22	
Current Consumption (Loaded) (2.8<Vcc≤3.63V)						
Stand-by Current	I_std			—	10	μA
Symmetry	SYM	@50% Vcc		45	55	%
Rise/ Fall Time (10% Vcc to 90% Vcc Maximum Loaded)	tr/ tf	1.6≤Vcc≤2V		—	3.5	ns
		2<Vcc≤2.8V		—	3.0	
		2.8<Vcc≤3.63V		—	2.5	
Low Level Output Voltage	VOL			—	10% Vcc	V
High Level Output Voltage	VOH			90% Vcc	—	V
Output Load	L_CMOS	1.6≤Vcc≤3.63V		—	15	pF
Input Voltage Range	VIN			0	Vcc	V
Low Level Input Voltage	VIL			—	30% Vcc	V
High Level Input Voltage	VIH			70% Vcc	—	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	JSigma	Measured with Wavecrest SIA-3000	50<fo≤100MHz	—	5	ps
			100<fo≤135MHz	—	4	
Peak to Peak Jitter	JPK-PK		50<fo≤100MHz	—	40	ps
			100<fo≤135MHz	—	30	

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.

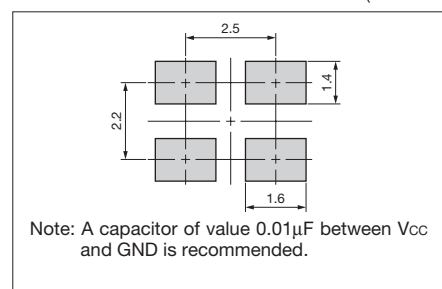
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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