

CMOS/ 2.5V, 3.3V/ 5.0×3.2mm



RoHS Compliant

Features

- Wide operating voltage range 2.5 to 3.3V
- $\pm 25 \times 10^{-6}$ available
- Highly reliable with seam welding
- Miniature ceramic package
- CMOS output

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 150.000 C 2 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 (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)

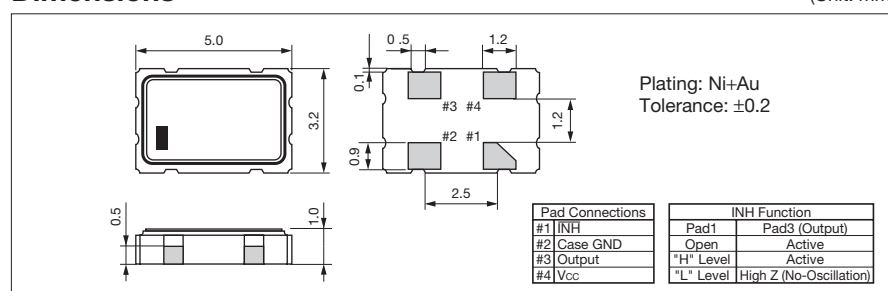
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo	fo>135MHz	135	170	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	—		-0.3	+4.0	V
Supply Voltage	V _{CC}		+2.25	+3.63	V
Current Consumption (Loaded) (2.25<V _{CC} ≤2.8V)	I _{CC}	135<fo≤150MHz	—	19	mA
Current Consumption (Loaded) (2.8<V _{CC} ≤3.63V)		150<fo≤170MHz	—	23	
Current Consumption (Loaded) (2.8<V _{CC} ≤3.63V)		135<fo≤150MHz	—	21	
Current Consumption (Loaded) (2.8<V _{CC} ≤3.63V)		150<fo≤170MHz	—	25	
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	2.25≤V _{CC} ≤2.8V	—	3.0	ns
Rise/ Fall Time (10% V _{CC} to 90% V _{CC} Maximum Loaded)	tr/ tf	2.8<V _{CC} ≤3.63V	—	2.5	
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}	2.25≤V _{CC} ≤3.63V	—	15	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	—	4	ps
Peak to Peak Jitter	J _{PK-PK}		—	30	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.

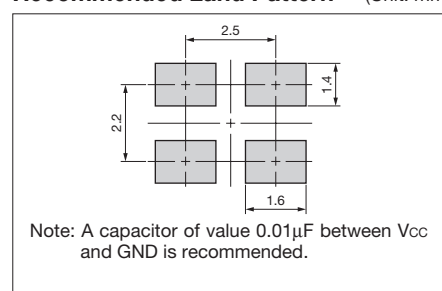
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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