

CMOS/ 1.8V, 2.5V, 3.3V, 5.0V/ 5.0×3.2mm



RoHS Compliant

Features

- Wide operating voltage range 1.6 to 5.5V
- $\pm 25 \times 10^{-6}$ 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 25.0000 C M 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, 5V 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)

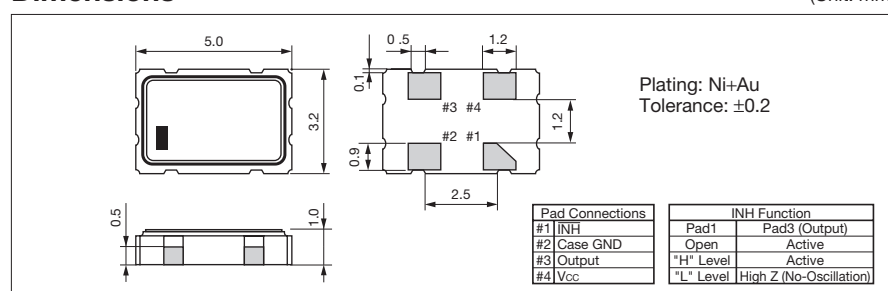
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo		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 Op. Temp.: -10 to +70°C/ -40 to +85°C/ -40 to +105°C Op. Temp.: -10 to +70°C Op. Temp.: -10 to +70°C	-100 +100 -50 +50 -30 +30 -25 +25	$\times 10^{-6}$
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}		+1.6	+5.5	V
Current Consumption (Loaded) (1.6≤V _{CC} ≤2.0V)	I _{CC}	1.8≤fo≤20MHz	—	3.5	mA
		20<fo≤40MHz	—	4.5	
		40<fo≤50MHz	—	5.0	
Current Consumption (Loaded) (2.0<V _{CC} ≤2.8V)		1.8≤fo≤20MHz	—	4.0	
		20<fo≤40MHz	—	5.0	
		40<fo≤50MHz	—	6.0	
Current Consumption (Loaded) (2.8<V _{CC} ≤3.63V)		1.8≤fo≤20MHz	—	5.0	
		20<fo≤40MHz	—	6.0	
		40<fo≤50MHz	—	7.0	
Current Consumption (Loaded) (3.63<V _{CC} ≤5.5V)		1.8≤fo≤20MHz	—	7.0	
		20<fo≤40MHz	—	8.0	
		40<fo≤50MHz	—	9.5	
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	1.6≤V _{CC} ≤2V 2<V _{CC} ≤2.8V 2.8<V _{CC} ≤3.63V 4.5≤V _{CC} ≤5.5V	— — — —	8 7 6 5	ns
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}	1.6≤V _{CC} ≤5.5V	—	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	1.8≤fo≤40MHz 40<fo≤50MHz	8 5	ps
Peak to Peak Jitter	J _{PK-PK}	Measured with Wavecrest SIA-3000	1.8≤fo≤40MHz 40<fo≤50MHz	80 50	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.

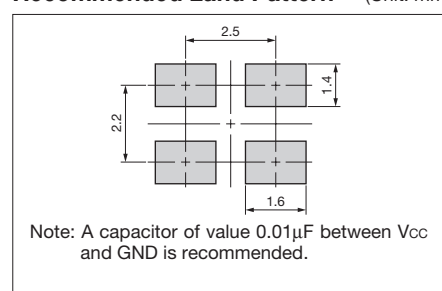
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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Kyocera:

KC5032A7.37280CMGE00	KC5032A30.0000CMGE00	KC5032A10.0000CMGE00	KC5032A32.0000CMGE00
KC5032A1.84320CMGE00	KC5032A3.68640CM0E00	KC5032A12.0000CM0E00	KC5032A24.0000CM0E00
KC5032A25.0000CM0E00	KC5032A20.0000CMGE00	KC5032A48.0000CM0E00	KC5032A4.00000CM0E00
KC5032A27.0000CMGE00	KC5032A8.00000CM0E00	KC5032A14.7456CM0E00	KC5032A16.0000CMGE00
KC5032A3.68640CMGE00	KC5032A25.0000CMGE00	KC5032A24.5760CM0E00	KC5032A24.5760CMGE00
KC5032A50.0000CMGE00	KC5032A44.0000CM0E00	KC5032A14.3182CM0E00	KC5032A30.0000CM0E00
KC5032A20.0000CM0E00	KC5032A16.0000CM0E00	KC5032A32.7680CMGE00	KC5032A8.00000CMGE00
KC5032A50.0000CM0E00	KC5032A12.0000CMGE00	KC5032A19.2000CM0E00	KC5032A40.0000CM0E00
KC5032A40.0000CMGE00	KC5032A4.00000CMGE00	KC5032A29.4989CM0E00	KC5032A32.7680CM0E00
KC5032A27.0000CM0E00	KC5032A48.0000CMGE00	KC5032A14.3182CMGE00	