



CMOS/ 5.0V/ 7.0×5.0mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage Vcc=5.0V

Table 1

Stability Code	Stability $\times 10^{-6}$	Operating Temperature Range (°C)	Note
0	± 50	-10 to +70	Standard specifications
S	± 30		
U	± 25		
F	± 100	-40 to +85	Please contact us for available frequencies.
G	± 50		
6	± 50	-40 to +105	

How to Order

KC7050A 25.0000 C 5 □ D 00
① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- 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 Individual Specification (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

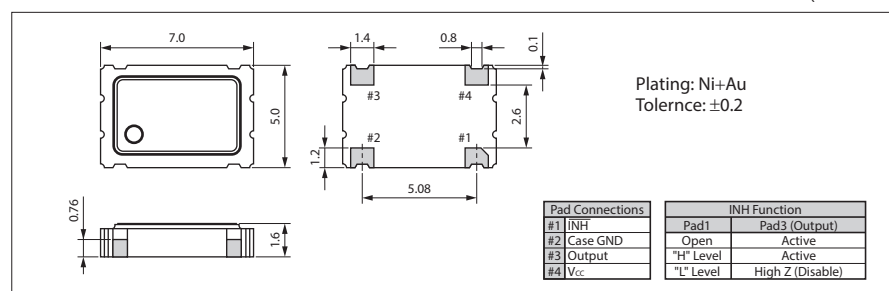
Specifications

Item	Symbol	Conditions	Min.	Max.	Unit
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	Temp.: -40 to +85°C	-100	+100
			Temp.: -10 to +70°C/ -40 to +85°C/ -40 to +105°C	-50	+50
			Temp.: -10 to +70°C	-30	+30
			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	
			-40	+105	
Max. Supply Voltage	—		-0.5	+7.0	V
Supply Voltage	V _{cc}	Freq. Tol. Code: 0, S, F	+4.5	+5.5	V
		Freq. Tol. Code: U, G, 6	+4.75	+5.25	
Current Consumption (Maximum Loaded)	I _{cc}	1.8≤fo≤20MHz	—	25	mA
		20<fo≤40MHz	—	35	
		40<fo≤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)	Tr/ Tf	1.8≤fo≤26MHz	—	10	ns
		26<fo≤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 Wavcrest SIA-3000	1.8≤fo<40MHz	—	8
			40≤fo≤50MHz	—	5
Peak to Peak Jitter	J _{PK-PK}	Measured with Wavcrest SIA-3000	1.8≤fo<40MHz	—	80
			40≤fo≤50MHz	—	40

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.

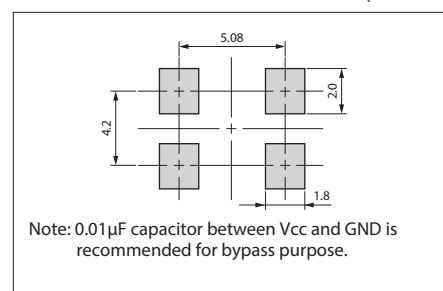
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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Kyocera:

<u>KC7050A20.0000C50D00</u>	<u>KC7050A14.3182C50D00</u>	<u>KC7050A1.84320C50D00</u>	<u>KC7050A12.0000C50D00</u>
<u>KC7050A13.5600C50D00</u>	<u>KC7050A14.7456C50D00</u>	<u>KC7050A16.0000C50D00</u>	<u>KC7050A16.3840C50D00</u>
<u>KC7050A18.4320C50D00</u>	<u>KC7050A24.0000C50D00</u>	<u>KC7050A24.5760C50D00</u>	<u>KC7050A25.0000C50D00</u>
<u>KC7050A27.0000C50D00</u>	<u>KC7050A28.6363C50D00</u>	<u>KC7050A29.4989C50D00</u>	<u>KC7050A3.68640C50D00</u>
<u>KC7050A30.0000C50D00</u>	<u>KC7050A32.0000C50D00</u>	<u>KC7050A33.0000C50D00</u>	<u>KC7050A33.8680C50D00</u>
<u>KC7050A33.8688C50D00</u>	<u>KC7050A40.0000C50D00</u>	<u>KC7050A48.0000C50D00</u>	<u>KC7050A49.1520C50D00</u>
<u>KC7050A50.0000C50D00</u>	<u>KC7050A8.00000C50D00</u>	<u>KC7050A9.84304C50D00</u>	