



RoHS Compliant

### Features

- Surface mount type suitable for auto pick-and-place
- Reflow soldering compatible
- CMOS, TTL IC direct drive is possible
- With tri-state function
- Broad frequency range from 1.8MHz to 50MHz
- Supply voltage  $V_{CC}$ =3.3/ 5.0V available

### Frequency Tolerance (Overall)

Freq. Tol. Code	$\times 10^{-6}$	Operating Temperature Range (°C)	Note
1	$\pm 100$	-10 to +70 (Standard)	1.8 to 50MHz
0	$\pm 50$		1.8 to 33MHz
S	$\pm 30$		

### How to Order

KC7050B 25.0000 C 3 1 A 00  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage 5=5.0V, 3=3.3V
- ⑤ Frequency Tolerance (See Table at Left)
- ⑥ Symmetry/ INH Function  
 A: 40/ 60%, Disable  
 B: 40/ 60%, Stand-by
- ⑦ Customer Special Model Suffix (STD Specification is "00")

### Symmetry/ INH Function

Freq. (MHz)	Code	
	KC7050B-C5	KC7050B-C3
1.8 to 39.9	A	A
40 to 50	A	B

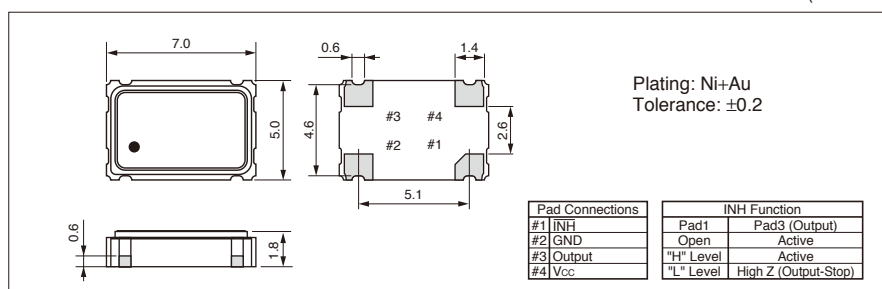
### Specifications

Item	Symbol	Conditions		Units
		KC7050Bxx.xxxxC5xA00 (FXO-31FH)	KC7050Bxx.xxxxC3xx00 (FXO-31FL)	
Output Frequency Range	fo	1.8 to 50		MHz
Frequency Tolerance (Overall)	f <sub>tol</sub>	$\pm 30$ (to 33MHz)		$\times 10^{-6}$
		$\pm 50$ (to 33MHz)		
		$\pm 100$ (to 50MHz)		
Storage Temperature Range	T <sub>stg</sub>	-40 to +85		°C
Operating Temperature Range	T <sub>use</sub>	-10 to +70		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	V <sub>CC</sub>	5 $\pm$ 0.5	3.3 $\pm$ 0.3	V
Current Consumption	I <sub>CC</sub>	25 max. (1.8 to 15MHz)	18 max. (1.8 to 39.9MHz)	mA
		30 max. (15.1 to 32MHz)		
		45 max. (32.1 to 50MHz)		
Stand-by/ Disable Current	I <sub>std</sub>	10 max.		$\mu$ A
Symmetry	SYM	40 to 60@50%V <sub>CC</sub>		%
Rise/ Fall Time	tr/ tf	10 max.		ns
Low Level Output Voltage	V <sub>OL</sub>	10% V <sub>CC</sub> max.		V
High Level Output Voltage	V <sub>OH</sub>	90% V <sub>CC</sub> min.		V
CMOS Load	L <sub>CMOS</sub>	50 max.	20 max.	pF
Input Voltage Range	V <sub>IN</sub>	0 to V <sub>CC</sub>	0 to V <sub>CC</sub>	V
Low Level Input Voltage	V <sub>IL</sub>	0.8 max.	0.3 max.	V
High Level Input Voltage	V <sub>IH</sub>	2.2 min.	2.2 min.	V
Disable Time	t <sub>dis</sub>	150 max.		ns
Enable Time	t <sub>ena</sub>	5 max.		ms
Start-up Time	t <sub>str</sub>	10 max.		ms

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.

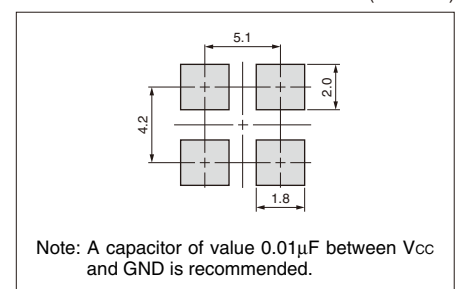
### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)



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