



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

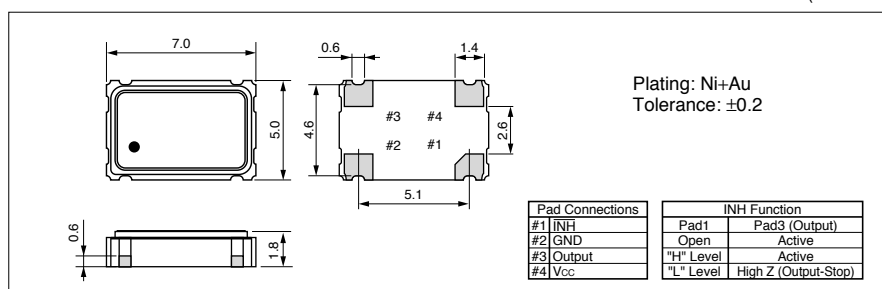
Specifications

Item	Symbol	Conditions		Units
		KC7050Bxx.xxxxC5xA00 (FXO-31FH)	KC7050Bxx.xxxxC3xx00 (FXO-31FL)	
Output Frequency Range	f_o	1.8 to 50		MHz
Frequency Tolerance (Overall)	f_{tol}	± 30 (to 33MHz)		$\times 10^{-6}$
		± 50 (to 33MHz)		
		± 100 (to 50MHz)		
Storage Temperature Range	T_{stg}	-40 to +85		°C
Operating Temperature Range	T_{use}	-10 to +70		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	V_{CC}	5 \pm 0.5	3.3 \pm 0.3	V
Current Consumption	I_{CC}	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)	25 max. (40 to 50MHz)	
Stand-by/ Disable Current	I_{std}	10 max.		μ A
Symmetry	SYM	40 to 60@50% V_{CC}		%
Rise/ Fall Time	t_r/ t_f	10 max.		ns
Low Level Output Voltage	V_{OL}	10% V_{CC} max.		V
High Level Output Voltage	V_{OH}	90% V_{CC} min.		V
CMOS Load	L_{CMOS}	50 max.	20 max.	pF
Input Voltage Range	V_{IN}	0 to V_{CC}	0 to V_{CC}	V
Low Level Input Voltage	V_{IL}	0.8 max.	0.3 max.	V
High Level Input Voltage	V_{IH}	2.2 min.	2.2 min.	V
Disable Time	t_{dis}	150 max.		ns
Enable Time	t_{ena}	5 max.		ms
Start-up Time	t_{str}	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)

