

# Clock Oscillators Surface Mount Type KC7050B Series (FXO-34F Series)



CMOS/ 3.3V/ 5.0V/ 7.0x5.0mm



RoHS Compliant

## Features

- This crystal oscillator has a built-in high-precision CMOS IC suitable for a wide range of temperature
- Lower noise and lower current for reduced power consumption
- Supply voltage Vcc=3.3/ 5.0V available

## Frequency Tolerance (Overall)

Freq. Tol. Code	× 10 <sup>-6</sup>	Operating Temperature Range (°C)	Note
P	±100	-30 to +85 (Standard)	1.8 to 32MHz
Q	± 50		
R	± 30		

## How to Order

KC7050B 25.0000 C 3 P B 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 7.9	A	A
8 to 32	B	B

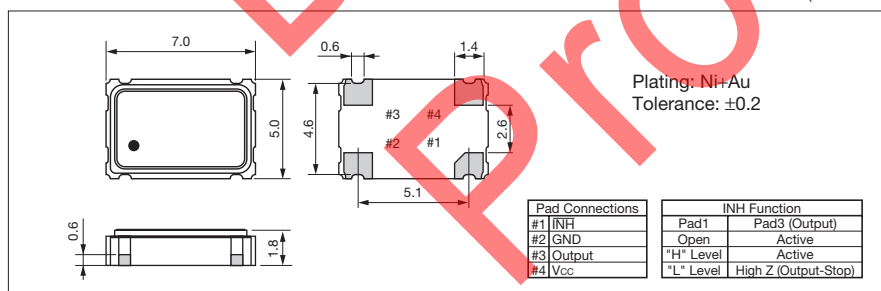
## Specifications

Item	Symbol	Conditions		Units
		KC7050Bxx.xxxxC5xx00 (FXO-34F)	KC7050Bxx.xxxxC3xx00 (FXO-34FL)	
Output Frequency Range	f <sub>o</sub>	1.8 to 32		MHz
Frequency Tolerance (Overall)	f <sub>tol</sub>	±30		×10 <sup>-6</sup>
		±50		
		±100		
Storage Temperature Range	T <sub>stg</sub>	-40 to +85		°C
Operating Temperature Range	T <sub>use</sub>	-30 to +85		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	V <sub>cc</sub>	5±5%	3.3±5%	V
Current Consumption	I <sub>cc</sub>	12 max.	10 max.	mA
Stand-by/ Disable Current	I <sub>std</sub>	8 max. (1.8 to 7.9MHz)		mA
		8 max. (8 to 32MHz)		μA
Symmetry	SYM	40 to 60@50%V <sub>cc</sub>		%
Rise/ Fall Time	tr/ tf	12 max.	16 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>	15 max.		pF
Input Voltage Range	V <sub>IN</sub>	0 to V <sub>cc</sub>		V
Low Level Input Voltage	V <sub>IL</sub>	0.8 max.		V
High Level Input Voltage	V <sub>IH</sub>	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)

