

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 V_{CC} =3.3/ 5.0V available

Frequency Tolerance (Overall)

Freq. Tol. Code	Freq. Tol. $\times 10^{-6}$	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

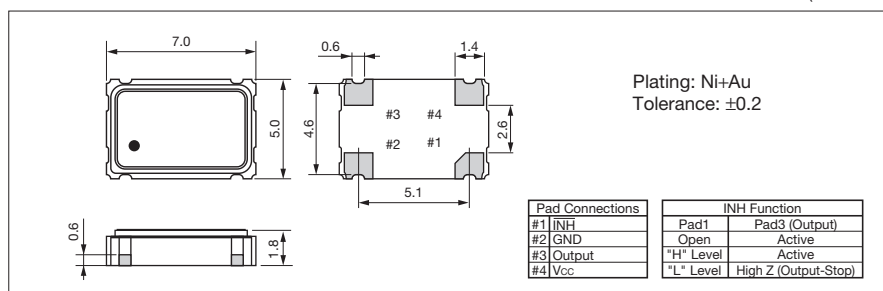
Specifications

Item	Symbol	Conditions		Units
		KC7050Bxx.xxxxC5xx00 (FXO-34F)	KC7050Bxx.xxxxC3xx00 (FXO-34FL)	
Output Frequency Range	f_o	1.8 to 32		MHz
Frequency Tolerance (Overall)	f_{tol}	± 30		$\times 10^{-6}$
		± 50		
		± 100		
Storage Temperature Range	T_{stg}	-40 to +85		°C
Operating Temperature Range	T_{use}	-30 to +85		°C
Max. Supply Voltage	—	7 max.		V
Supply Voltage	V_{CC}	5 \pm 5%	3.3 \pm 5%	V
Current Consumption	I_{CC}	12 max.	10 max.	mA
Stand-by/ Disable Current	I_{std}	8 max. (1.8 to 7.9MHz)		mA
		8 max. (8 to 32MHz)		μ A
Symmetry	SYM	40 to 60@50% V_{CC}		%
Rise/ Fall Time	t_r/ t_f	12 max.	16 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}	15 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)

