

# Clock Oscillators Surface Mount Type KC7050B Series (FXO-37FNB)



CMOS/ 5.0V/ 7.0×5.0mm



RoHS Compliant

“Designated for MFP3N, Communication LSI for CC-Link Remote Device”

## Features

- Surface mount type suitable for auto pick-and-place
- Reflow compatible
- CMOS, TTL IC direct drive is possible
- With tri-state function
- Broad frequency range 80MHz (PLL circuit is built in)
- Supply voltage  $V_{CC}=5.0V$  available

## Frequency Tolerance (Overall)

Freq. Tol. Code	$\times 10^{-6}$	Operating Temperature Range (°C)	Note
Z	±50	-10 to +85	80MHz

## How to Order

KC7050B 80.0000 C 5 Z B QZ  
① ② ③ ④ ⑤ ⑥ ⑦

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

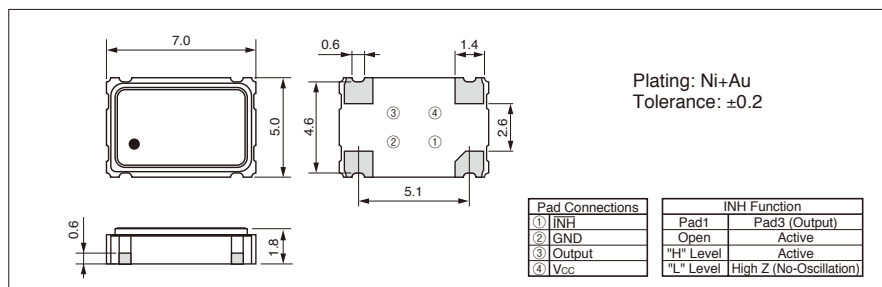
## Specifications

Item	Symbol	Conditions	Specifications		Units
			Min.	Max.	
Output Frequency Range	$f_o$		80		MHz
Frequency Tolerance (Overall)	$f_{tol}$		-50	+50	$\times 10^{-6}$
Storage Temperature Range	$T_{stg}$		-20	+85	°C
Operating Temperature Range	$T_{use}$		-10	+85	°C
Max. Supply Voltage	—		—	6	V
Supply Voltage	$V_{CC}$	5.0V Typ.	4.75	5.25	V
Current Consumption	$I_{CC}$		—	50	mA
Stand-by Current	$I_{std}$		—	40	$\mu A$
Symmetry	SYM	@50% $V_{CC}$	40	60	%
Rise/ Fall Time	$t_r/ t_f$		—	5	nS
Low Level Output Voltage	$V_{OL}$		—	10% $V_{CC}$	V
High Level Output Voltage	$V_{OH}$	@5.0 V	90% $V_{CC}$	—	V
CMOS Load	$L_{CMOS}$		—	15	pF
Input Voltage Range	$V_{IN}$		$V_{SS}$	$V_{CC}$	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	$\mu S$
Start-up Time	$t_{str}$		—	10	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)

