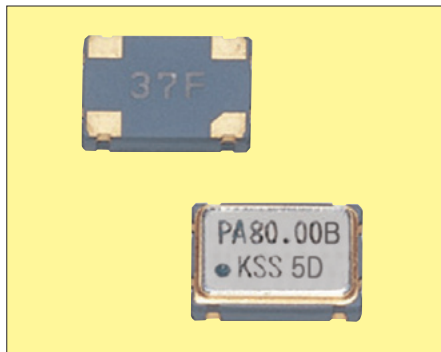


# Clock Crystal Oscillators Surface Mount Type KC7050B Series (FXO-37FA)



CMOS/ 5.0V/ 7.0×5.0mm



**Pb Free**

**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	$\pm 50$	-10 to +85	80MHz

## How to Order

KC7050B 80.0000 C 5 Z B Q1  
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/ Enable Function (40/ 60%, INH)
- ⑦ Customer Special Model Suffix (STD Specification is "Q1")

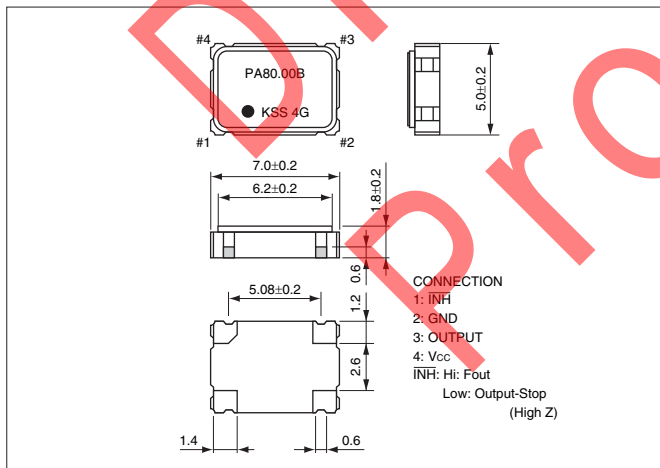
## Specifications

Item	Symbol	Conditions	Specifications		Units
			Min.	Max.	
Output Frequency Range	Fo		80		MHz
Frequency Tolerance (Overall)	F <sub>tol</sub>		-50	+50	$\times 10^{-6}$
Storage Temperature Range	T <sub>stg</sub>		-20	+85	°C
Operating Temperature Range	T <sub>use</sub>		-10	+85	°C
Max. Supply Voltage	—		—	6	V
Supply Voltage	V <sub>CC</sub>	5.5V Type	4.75	5.25	V
Current Consumption	I <sub>CC</sub>		—	50	mA
Stand-by Current	I <sub>std</sub>		—	20	$\mu A$
Symmetry	SYM	@50% V <sub>CC</sub>	40	60	%
Rise/ Fall Time	tr/ tf		—	5	nS
Low Level Output Voltage	V <sub>OL</sub>		—	10% V <sub>CC</sub>	V
High Level Output Voltage	V <sub>OH</sub>	@5.0 V	90% V <sub>CC</sub>	—	V
Output Load	CL		—	15	pF
Input Voltage Range	V <sub>IN</sub>		V <sub>SS</sub>	V <sub>CC</sub>	V
Low Level Input Voltage	V <sub>IL</sub>		—	0.8	V
High Level Input Voltage	V <sub>IH</sub>		2.2	—	V
Disable Time	t <sub>dis</sub>		—	100	nS
Enable Time	t <sub>ena</sub>		—	100	$\mu S$
Start-up Time	t <sub>str</sub>		—	10	mS

Note: All electrical characteristics are defined at the maximum load and operating temperature range.  
Please contact us for inquiries about operating temperature range, available frequencies and other conditions.

## Dimensions

(Unit: mm)



## Recommended Land Pattern

(Unit: mm)

