

# Clock Oscillators    Ledged Type KCJXO Series (JXO Series)



CMOS/ 5.0V



Ph Free

RoHS Compliant

## Features

- Compact oscillator with a CMOS IC built in that is the same shape (height 3.5mm) as a crystal device
- It is a hermetic sealed type with a metal case
- The case comes with a grounding terminal
- It is also possible to attach a stand-off (option)
- It is provided with multiple standard frequencies

## Applications

- Amusement

## How to Order

**KCJXOx-** 20.0000 C 5 1 C 00  
①                      ②                      ③    ④    ⑤    ⑥    ⑦

- ① Type (KCJXO5 or KCJXO7)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (5.0V)
- ⑤ Frequency Tolerance
- ⑥ Symmetry/ Enable Function (40/ 60%)
- ⑦ Customer Special Model Suffix  
"00" for Standard Specifications  
"S0" for Stand-off Type  
"F0" for SMD Type

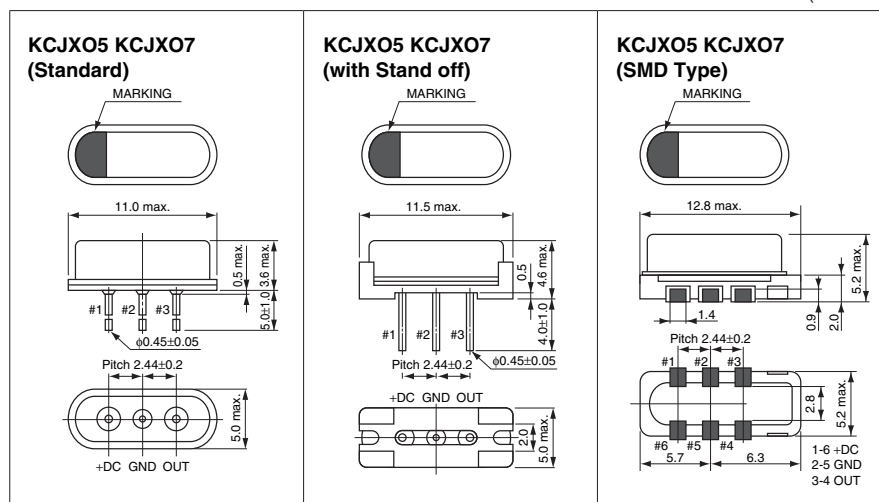
## Specifications

Item	Symbol	Conditions	Specifications		Units
			Min.	Max.	
Output Frequency Range	$f_o$	KCJXO5 Type KCJXO7 Type	1 20.1	20 70	MHz
Frequency Tolerance (Overall)	$f_{tol}$		-100	+100	$\times 10^{-6}$
Storage Temperature Range	$T_{stg}$		-20	+80	$^{\circ}\text{C}$
Operating Temperature Range	$T_{use}$		-10	+70	$^{\circ}\text{C}$
Supply Voltage	$V_{CC}$		4.5	5.5	V
Current Consumption	$I_{CC}$	KCJXO5 Type (1 to 20MHz)	—	20	mA
		KCJXO7 Type (20.1 to 50MHz)	—	25	
		KCJXO7 Type (50.1 to 70MHz)	—	50	
Symmetry	SYM	@ 50% $V_{CC}$	40	60	%
Rise/ Fall Time	$t_r/ t_f$	KCJXO5 Type (1 to 20MHz)	—	20	nS
		KCJXO7 Type (20.1 to 50MHz)	—	15	
		KCJXO7 Type (50.1 to 70MHz)	—	10	
Low Level Output Voltage	$V_{OL}$		—	10% $V_{CC}$	V
High Level Output Voltage	$V_{OH}$		90% $V_{CC}$	—	V
Output Load	CL	KCJXO5 Type (1 to 20MHz)	—	50	pF
		KCJXO7 Type (20.1 to 70MHz)	—	15	
Start-up Time	$t_{str}$	KCJXO5 Type (1 to 20MHz)	—	3	mS
		KCJXO7 Type (20.1 to 70MHz)	—	10	

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)



A capacitor of value 0.01  $\mu\text{F}$  between  $V_{CC}$  and GND is recommended.

## Recommended Land Pattern

(Unit: mm)

