

Ph Free

RoHS Compliant

## Features

- Wide frequency range
- Quick delivery is possible
- Realizing high reliability by using sealed crystal
- Stand-by function (ST) can be used for low current consumption applications
- Pin compatible with half size

## Applications

- Amusement

## How to Order

KCEX03A 20.0000 C 5 1 B 00  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (5.0V)
- ⑤ Frequency Tolerance
- ⑥ Symmetry/ Enable Function (40/ 60%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

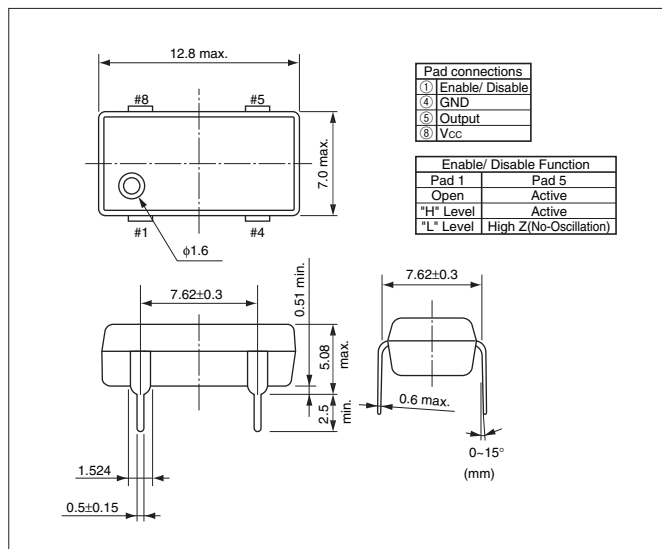
## Specifications

Item	Symbol	Conditions	Specifications		Units
			Min.	Max.	
Output Frequency Range	$f_o$	—	1	125	MHz
Frequency Tolerance (Overall)	$f_{tol}$	—	-100	-100	$\times 10^{-6}$
Storage Temperature Range	$T_{stg}$	—	-55	+125	$^{\circ}\text{C}$
Operating Temperature Range	$T_{use}$	—	-10	+70	$^{\circ}\text{C}$
Supply Voltage	$V_{CC}$	—	4.5	5.5	V
Current Consumption	$I_{CC}$	$1 \leq f_o \leq 40$	—	25	mA
		$40 < f_o \leq 90$	—	35	mA
		$90 < f_o \leq 125$	—	40	mA
Stand-by Current	$I_{std}$	—	—	10	$\mu\text{A}$
Symmetry	SYM	@50% $V_{CC}$	40	60	%
Rise/ Fall Time	$t_r / t_f$	$1 \leq f_o \leq 10$	—	10	nS
		$10 < f_o \leq 60$	—	5	nS
		$60 < f_o \leq 125$	—	5	nS
Low Level Output Voltage	$V_{OL}$	—	—	10% $V_{CC}$	V
High Level Output Voltage	$V_{OH}$	—	90% $V_{CC}$	—	V
Output Load	CL	—	—	15	pF
Disable Time	$t_{dis}$	—	—	100	nS
Enable Time	$t_{ena}$	—	—	5	mS
Start-up Time	$t_{str}$	@ Minimum operation voltage to be 0 sec.	—	5	mS

Note: All electrical characteristics are defined at the maximum load and operating temperature range.  
 Because we use a PLL Technology, please be careful about the influence of the jitter enough.  
 Please contact us for inquiry about supply Voltage 3.3V.

## Dimensions

(Unit: mm)



## Marking

