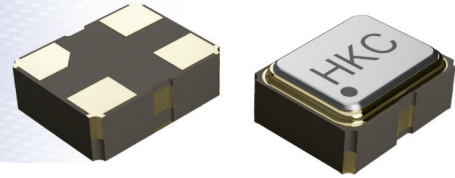




## 1612 Crystal Clock Oscillator 1612XO Series

Model CY

4 PADS 1.65x 1.25



**Frequency Range :** 1.00MHz to 60.00MHz / 32.768kHz

### Features :

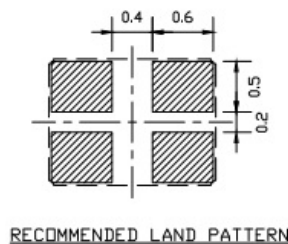
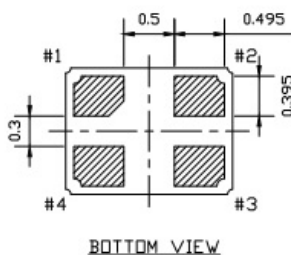
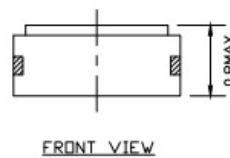
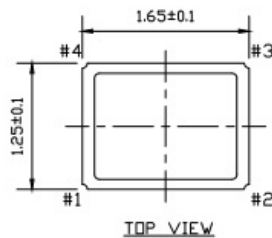
- High reliability & low cost unit
- Tight stability & extended temperature available
- Lead-free type

QUARTZ  
CRYSTALS

### Standard Specifications

Item	Value															
Frequency Range	1.00MHz to 60.00MHz / 32.768kHz															
Frequency Stability	±50ppm (or specify)															
Operating Temperature Range	-20°C to +70°C (or specify)															
Operable Temperature Range	-40°C to +85°C															
Operating Voltage	1.8V / 3.3V / 5.0V ±10%															
Output Type	HCMOS															
Output Load	15pF Max.															
Current Consumption (Max)	<table border="1"> <thead> <tr> <th>1.8V:</th> <th>3.3V:</th> <th>5V:</th> </tr> </thead> <tbody> <tr> <td>1-19MHz: 5mA</td> <td>1-19MHz: 7mA</td> <td>1-19MHz: 10mA</td> </tr> <tr> <td>20-39MHz: 7mA</td> <td>20-39MHz: 10mA</td> <td>20-39MHz: 15mA</td> </tr> <tr> <td>40-60MHz: 10mA</td> <td>40-60MHz: 15mA</td> <td>40-60MHz: 25mA</td> </tr> <tr> <td>32.768kHz: 0.2mA</td> <td>32.768kHz: 0.2mA</td> <td>32.768kHz: 0.2mA</td> </tr> </tbody> </table>	1.8V:	3.3V:	5V:	1-19MHz: 5mA	1-19MHz: 7mA	1-19MHz: 10mA	20-39MHz: 7mA	20-39MHz: 10mA	20-39MHz: 15mA	40-60MHz: 10mA	40-60MHz: 15mA	40-60MHz: 25mA	32.768kHz: 0.2mA	32.768kHz: 0.2mA	32.768kHz: 0.2mA
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40-60MHz: 10mA	40-60MHz: 15mA	40-60MHz: 25mA														
32.768kHz: 0.2mA	32.768kHz: 0.2mA	32.768kHz: 0.2mA														
Output Symmetry	HCMOS: 40~60%(at 50%V <sub>DD</sub> ) ; 45~55% is available															
"High" Output Voltage	HCMOS: 90%V <sub>DD</sub> Min.															
"Low" Output Voltage	HCMOS: 10%V <sub>DD</sub> Max.															
Rise and Fall Time	1-60MHz: 10ns Max. 32.768KHz: 60ns Max.															
Tri-State	Yes															

### Dimension



- 1- INH
- 2- GND
- 3- OUTPUT
- 4- VDD

Note :

1. Manufacturer reserves the right to change the specification and content of this product for improvement without notification.
2. Custom specification is welcome. Please contact our sales representative for further details.
3. If the crystal is intended for applications which have direct impact on human life and properties, and require a high degree of reliability and safety concerns, customers must provide full information such as but not limit to the application, electrical and reliability specification at the inquiry beginning stage.
4. Customers have to agree to the "Guideline for handling crystal units" and "Standard Terms and Condition of Sales" which is printed this catalog before placing orders to our company or our distributors. There are also unpredictable factors such as applied condition, oscillation margin and etc and customers must check them beforehand. In case of queries, please do not fail to send inquiry to our company before ordering.

Ver 1.1

