

# JXO Series

## Clock Crystal Oscillator

### ■Features

- It is an ultracompact oscillator with a C-MOS IC built in that is the same shape (height 3.5mm) as a crystal device.
- It is a completely 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.



### ■Specifications

| Item                        | Type | JXO-5                                                                    | JXO-5A               | JXO-7                 |            |
|-----------------------------|------|--------------------------------------------------------------------------|----------------------|-----------------------|------------|
| Frequency Range             |      | 1~20MHz                                                                  | * 1                  | 20.1~50MHz            | 50.1~70MHz |
| Standard Frequency          |      | Table 1                                                                  | 15.36                | Table 1               |            |
| Frequency Stability         |      | ±100×10 <sup>-6</sup>                                                    | ±30×10 <sup>-6</sup> | ±100×10 <sup>-6</sup> |            |
| Operating Temperature Range |      | -10~+70℃                                                                 | -30~+70℃             | -10~+70℃              |            |
| Storage Temperature Range   |      | -20~+80℃                                                                 | -30~+80℃             | -20~+80℃              |            |
| Supply Voltage              |      | 5V±0.5V                                                                  |                      |                       |            |
| Current                     |      | 20mA MAX.                                                                | 5.0mA MAX.           | 25mA MAX.             | 50mA MAX.  |
| Load                        |      | 50pF (10LS TTL)                                                          | 15pF (2TTL)          | 15pF (10LS TTL)       |            |
| Output Level                |      | V <sub>OH</sub> : V <sub>DD</sub> -0.5V MIN./V <sub>OL</sub> : 0.5V MAX. |                      |                       |            |
| Output Symmetry             |      | 40~60%                                                                   |                      |                       |            |
| Rise Time/Fall Time         |      | 20ns MAX.                                                                | 15ns MAX.            |                       | 10ns MAX.  |
| Start-up Time               |      | 3ms MAX.                                                                 | 1.5ms MAX.           | 10ms MAX.             |            |
| Vibration                   |      | 10~55Hz Amplitude 1.5mm, Cycle 1 minute, 3 direction, 1 hour each        |                      |                       |            |
| Shock                       |      | 1000G                                                                    |                      |                       |            |
| Weight                      |      | 0.6g                                                                     |                      |                       |            |

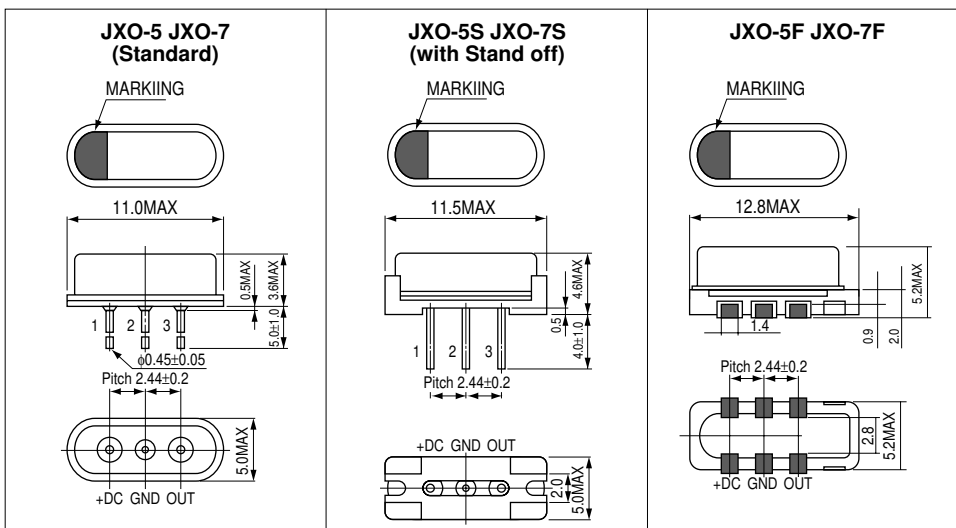
\* Please contact us for frequency range of JXO-5A.

■Table 1

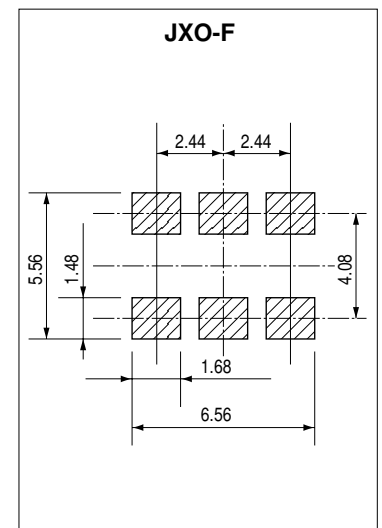
Standard Frequencies(MHz)

| JXO-5, JXO-7 |           |          |
|--------------|-----------|----------|
| 1.000        | 12.800    | 24.000   |
| 1.8432       | 14.31818  | 24.576   |
| 2.4576       | 14.7456   | 25.000   |
| 3.579545     | 15.000    | 25.175   |
| 3.6864       | 15.360    | 27.000   |
| 4.000        | 16.000    | 28.63636 |
| 4.9152       | 16.384    | 30.000   |
| 5.000        | 16.9344   | 32.000   |
| 6.000        | 17.734476 | 33.3333  |
| 6.400        | 18.000    | 33.8688  |
| 7.680        | 18.432    | 39.675   |
| 8.000        | 19.200    | 40.000   |
| 10.000       | 19.6608   | 48.000   |
| 12.000       | 20.000    | 50.000   |
| 12.288       | 21.0526   | 66.667   |

### ■Outline



### ■Land Pattern



Dimensions(mm)