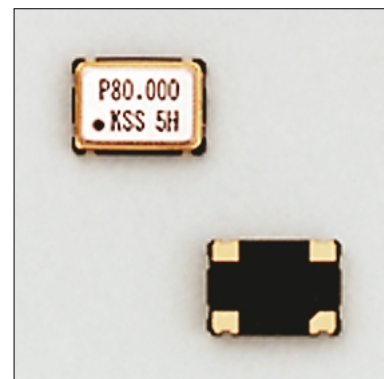


# FXO-37F

## Miniature Clock Crystal Oscillator

### ■Features

- It is a compact and thin ceramic package with a metalized lead for surface mounting that is able to be automatically loaded.
- Reflow soldering is possible.
- CMOS, TTL IC direct drive is possible. Depending upon the frequency band, there is also a crystal oscillator with a CMOS IC with a tri-state function built in.
- Use in the broad frequency band from 50MHz to 125MHz is possible. (PLL circuit is built in).



### ■Specifications

| Item                        | Type | FXO-37F   | FXO-37FL   |
|-----------------------------|------|---|--|
| Application                 |      | C-MOS Output  | Low Voltage Type   |
| Frequency Range             |      | 50~100MHz   | 100~125MHz   |
| Standard Frequency          |      | Table 1   |  |
| Frequency Stability         |      | $\pm 100 \times 10^{-6}$  |  |
| Operating Temperature Range |      | 0 ~ +70°C   |  |
| Storage Temperature Range   |      | -20 ~ +80°C   |  |
| Supply Voltage              |      | 5 $\pm$ 0.25V   | 3.3 $\pm$ 0.15V  |
| Current                     |      | 50mA MAX.   | 25mA MAX.  |
| Load                        |      | 25pF(10TTL)   | 15pF(5TTL)   |
| Output Level                |      | V <sub>OH</sub> : 4.0V MIN./V <sub>OL</sub> : 0.5V MAX.           | V <sub>OH</sub> : 2.8V MIN.<br>V <sub>OL</sub> : 0.5V MAX. |
| Output Symmetry             |      | 40~60% (V <sub>T</sub> =1/2V <sub>DD</sub> )                      |  |
| Rise Time/Fall Time         |      | 7ns MAX.  |  |
| Start-up Time               |      | 10ms MAX.   | 15ms MAX.  |
| Vibration                   |      | 10~55Hz Amplitude 1.5mm, Cycle 2 minute, 3 direction, 2 hour each |  |
| Shock                       |      | 1000G   |  |
| Weight                      |      | 0.2g  |  |

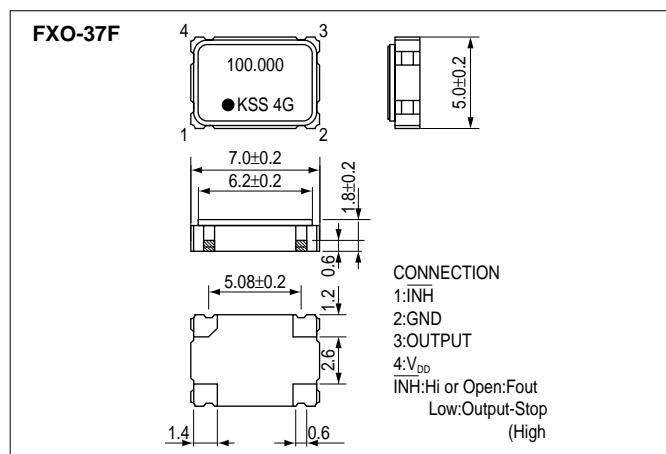
\*Taping item packaging : one unit 3,000 pcs or 1,000 pcs

■Table 1

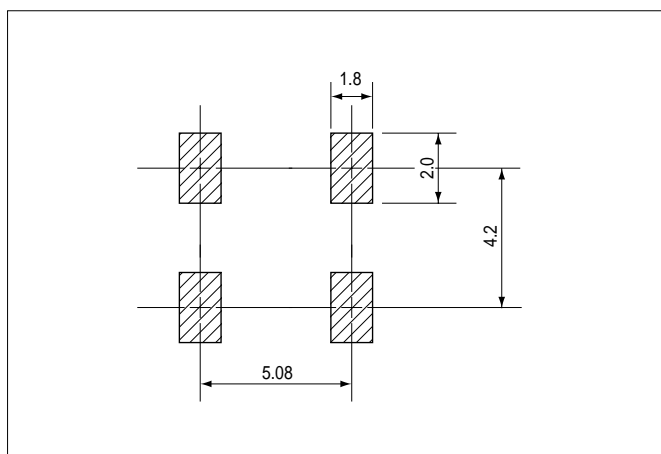
### Standard Frequencies

| Frequency (MHz) |
|-----------------|
| 50.000          |
| 60.000          |
| 64.000          |
| 65.000          |
| 66.667          |
| 67.700          |
| 70.000          |
| 75.000          |
| 75.525          |
| 80.000          |
| 90.3168         |
| 94.410          |
| 100.000         |
| 106.250         |
| 120.000         |

### ■Outline



### ■Land Pattern(reference)



Dimensions(mm)