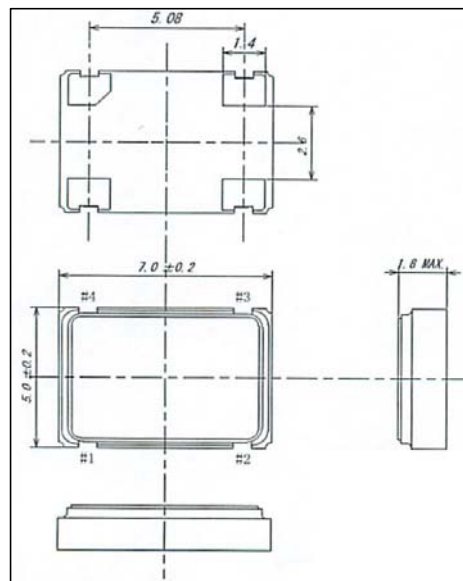


| | | |
|--|------------|------------------|
| CRYSTAL OSCILLATOR | (SMD TYPE) | AOF-C7050 |
| Surface Mount Type CMOS Crystal Oscillator | | |

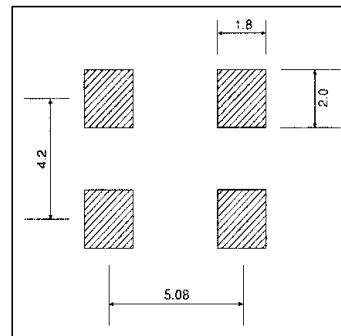
SPECIFICATIONS

| Type No. | AOF-C7050 | | |
|-----------------------|---|-----------------------------------|---------------------------------------|
| Frequency Range | 1 ~ 180.000 | 1 ~ 180.000 | 1 ~ 125.000 MHz |
| Frequency Stability | ±25,±50 ppm | | |
| Supply Voltage | 2.5 ± 5% | 3.3±5% | 5.0±5% V |
| Current Consumption | 70 max. | 100 max. | 90 max. mA |
| Output Voltage | $V_{OH}: 0.9V_{DD} \text{ min.} / V_{OL}: 0.1V_{DD} \text{ max.}$ | | |
| Symmetry | 45/55 % | | |
| Rise/Fall Time | 6 max. | 8 max.(1-20MHz) 5 max.(20MHz~) | 10 max.(1-20MHz) 7 max.(20MHz~) nS |
| Load | 15 | 30 (1-50MHz) 15 (50MHz~) | pF |
| Operating Temperature | -40~+85 °C | | |
| Storage Temperature | -50~+125 °C | | |
| Aging | ± 5 max. /year ppm | | |

CASE DIMENSIONS (Unit:mm)



RECOMMENDED PADS



(We recommend external by-pass filter 0.01uF)

E/D FUNCTION (Supply Voltage: 2.5V, 3.3V(≥30MHz))

| | |
|----------------------------|---------------|
| Pin#1: Open | Pin#3: Active |
| Pin#1: ≥0.7V _{DD} | Pin#3: Active |
| Pin#1: ≤0.3V _{DD} | Pin#3: High-Z |

E/D FUNCTION (Supply Voltage: 5.0V, 3.3V(≤30MHz))

| | |
|--------------|---------------|
| Pin#1: Open | Pin#3: Active |
| Pin#1: ≥2.2V | Pin#3: Active |
| Pin#1: ≤0.8V | Pin#3: High-Z |

PIN CONNECTIONS

| | | | |
|-------|-----|-------|-----------------|
| Pin#1 | E/D | Pin#3 | Output |
| Pin#2 | GND | Pin#4 | V _{DD} |