

CRYSTAL OSCILLATOR

(SMD TYPE)

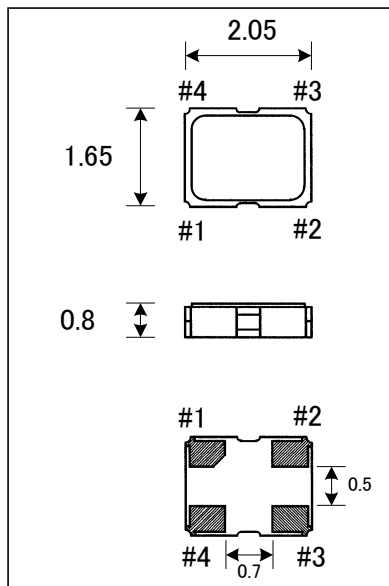
AOK-C2016M series

Surface Mount Type CMOS Crystal Oscillator (Fundamental Mode Oscillation)

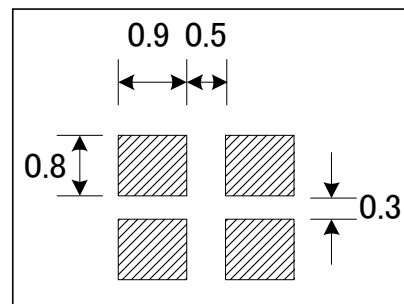
SPECIFICATIONS

| | | | | |
|-----------------------|---------------------------------------|----------------------------------|--------|----|
| Frequency Range | 1.8 ~ 133 | 1.8 ~ 170 | MHz | |
| Frequency Stability | ±25, ±50, ±100 | | ppm | |
| Supply Voltage | 1.8±5% | 2.5±5% | 3.3±5% | V |
| Current Consumption | To be defined | | 40max. | mA |
| Output Voltage | $V_{OH}: 0.8V_{DD} \text{ min.}$ | $V_{OH}: 0.9V_{DD} \text{ min.}$ | V | |
| | $V_{OL}: 0.2V_{DD} \text{ max.}$ | $V_{OL}: 0.1V_{DD} \text{ max.}$ | | |
| Symmetry | 45/55 | | % | |
| Rise/Fall Time | To be defined | 6 max. | nS | |
| Load | 15 | | pF | |
| Operating Temperature | -40~+85, -40~+125(±50ppm) | | °C | |
| Storage Temperature | -55~+125 | | °C | |
| Phase Jitter | 0.1 typ. @74.25MHz, 0.07 typ. @125MHz | | pS | |

CASE DIMENSIONS (Unit:mm)



RECOMMENDED PADS



PIN CONNECTIONS

| | | | |
|-------|---------|-------|----------|
| Pin#1 | E/D(NC) | Pin#3 | Output |
| Pin#2 | GND | Pin#4 | V_{DD} |

E/D FUNCTION

| | |
|-------------------------|---------------|
| Pin#1: Open | Pin#3: Active |
| Pin#1: $\geq 0.7V_{DD}$ | Pin#3: Active |
| Pin#1: $\leq 0.3V_{DD}$ | Pin#3: High-Z |