

CRYSTAL OSCILLATOR

(SMD TYPE)

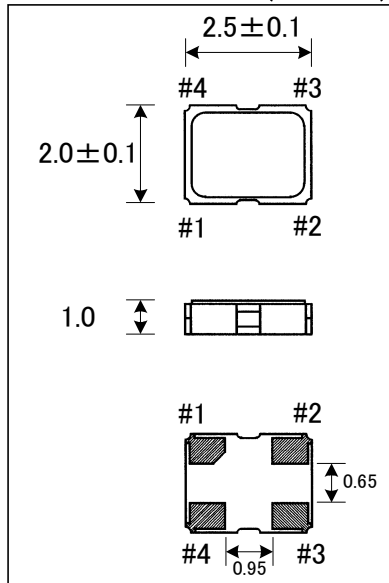
AOK-C2520M series

Surface Mount Type CMOS Crystal Oscillator (Fundamental Mode Oscillation)

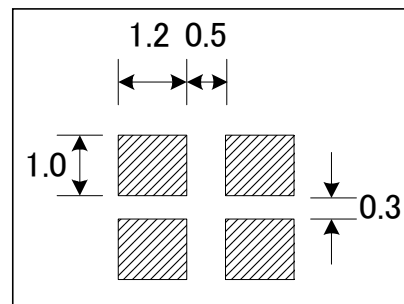
SPECIFICATIONS

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	7max. (≤50MHz)	12max. (≤50MHz)	20max. (≤50MHz)	mA
	20max. (>50MHz)	30max. (>50MHz)	40max. (>50MHz)	
Output Voltage	$V_{OH}: 0.8V_{DD} \text{ min.}$		V	
	$V_{OL}: 0.2V_{DD} \text{ max.}$			
Symmetry	45/55		%	
Rise/Fall Time	5 max.	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