

# Clock Oscillators (SMD)



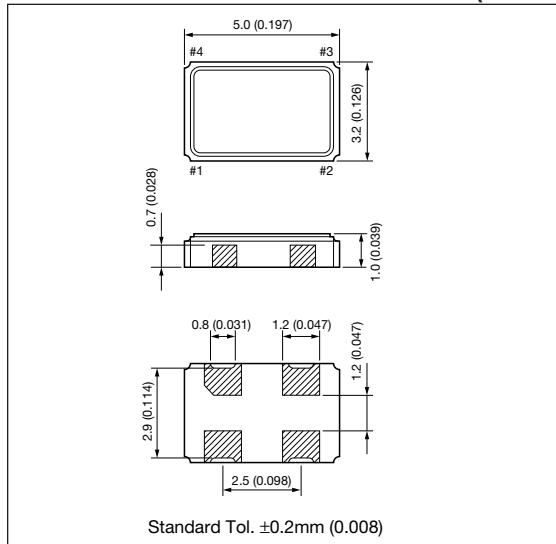
## K30-HC Series (5.0V)

### K30 SERIES



### DIMENSIONS

millimeters (inches)



### PIN CONNECTION

Pin #	Function
1	CONTROL
2	CASE GND
3	OUTPUT
4	+Vcc

### ENABLE/DISABLE

Pin #1	Pin #3
"H" or Open	Oscillation
"L"	High Impedance

### FEATURES

- High reliable miniature SMD ceramic package
- Frequency range = 8MHz to 50MHz
- Frequency tolerance =  $\pm 100\text{ppm}$ ,  $\pm 50\text{ppm}$
- Tristate output inhibit

### APPLICATIONS

- PDAs
- Portable electronics

### HOW TO ORDER

**K30 - HC 1 C S E 25.0000M R**

#### Packaging

R = Tape and reel,  
1,000 pcs/reel

#### Frequency (MHz)

14.31818	24.5760	30.0000
16.0000	25.0000	32.0000
17.7345	27.0000	33.8688
20.0000	28.37516	48.0000
24.0000	28.63636	—

#### Enable/Disable Function

E = with function (STD)

#### Duty Ratio

S = 45% to 55% (STD)

#### Output

C = CMOS/Compatibility

#### Tolerance

1 =  $\pm 100\text{ppm}$   
0 =  $\pm 50\text{ppm}$

#### Series

### SPECIFICATIONS

Items	Code	Rating	Unit	Remarks
Output Frequency	$F_{OUT}$	8 to 50	MHz	—
Frequency Tolerance	$\Delta F/F$	$\pm 100$ , $\pm 50$	ppm	Over all conditions
Aging	$\Delta F/F$	$\pm 5$	ppm/y	@ 25°C
Operating Temperature	$T_{OPR}$	-10 to 70	°C	—
Storage Temperature	$T_{STR}$	-55 to 125	°C	—
Supply Voltage	$V_{CC}$	$5 \pm 0.5$	V	—
Supply Current	$I_{CC}$	50 max.	mA	Loaded @ 50MHz
Disable Current	$I_{DE}$	30 max.	mA	—
Duty Ratio	SYM	45 to 55	%	0.5Vcc DC Level
Output 0 Level	$V_{OL}$	$0.1V_{CC}$ max.	V	$I_{OL} = 16\text{mA}$
Output 1 Level	$V_{OH}$	$0.9V_{CC}$ min.	V	$I_{OH} = -16\text{mA}$
Rise/Fall Time	$T_R, T_F$	10 max.	nsec	$0.1V_{CC} - 0.9V_{CC}$
Load Capacitance	$C_L$	50 max.	pF	—
Enable/Disable Time	—	100 max.	nsec	—
Input Voltage Low	$V_{IL}$	0.8 max.	V	—
Input Voltage High	$V_{IH}$	2.2 min.	V	—
Start-up Time	ST	10 max.	mS	Minimum Operating Voltage to be 0sec

\*Please contact us for inquiries about Extend Operating Temperature Range (-40 to +85°C), available frequencies, other condition.