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Clock Oscillators (SMD)

K50-HC Series (5.0V)



K50 SERIES



MENSIONS millimeters (inches) K50 7.0 (0.276) #4 #3 R0.35 (0.014) Standard Tol. ±0.2mm (0.008)

PIN CONNECTION ENABLE/DISABLE

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

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

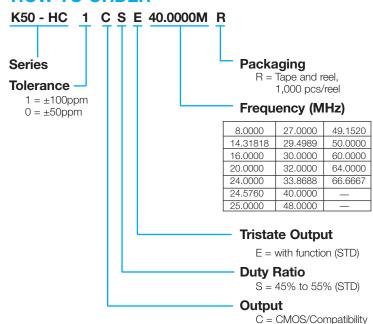
FEATURES

- High reliable SMD ceramic package
- Frequency range = 8MHz to 68MHz
- Frequency tolerance = ±100ppm, ±50ppm
- Tristate output inhibit

APPLICATIONS

- Routers
- Switches
- Servers

HOW TO ORDER



SPECIFICATIONS

Items	Code	Rating	Unit	Remarks
Output Frequency Four		8 to 68	MHz	_
Frequency Tolerance	ΔF/F	±100, ±50	ppm	Over all conditions
Aging	ΔF/F	±5	ppm/y	@ 25°C
Operating Temperature	Topr	-10 to 70	°C	_
Storage Temperature	Tstr	-55 to 125	°C	_
Supply Voltage	Vcc	5±0.5	V	_
Supply Current	lcc	50 max.	mA	Loaded @ 68MHz
Disable Current IDE		30 max.	mA	_
Duty Ratio	SYM	45 to 55	%	0.5Vcc DC Level
Output 0 Level	Vol	0.1 Vcc max.	V	IoL = 16mA
Output 1 Level	Vон	0.9 Vcc min.	V	loн = -16mA
Rise/Fall Time	T _R , T _F	10 max.	nsec	0.1Vcc-0.9Vcc
Load Capacitance	CL	50 max.	pF	F>50MHz CL=15pF (max.)
Enable/Disable Time	_	100 max.	nsec	_
Input Voltage Low	put Voltage Low V _{IL} 0.8 max.		V	_
Input Voltage High	nput Voltage High V⊮ 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.



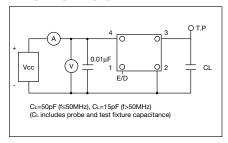
Clock Oscillators

K30/K50 Series

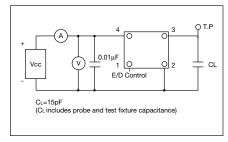


Kyocera has a wide range of clock oscillators with frequency and package size to match the various customer requirements.

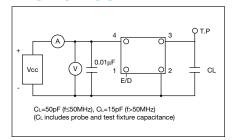
K50/K30 HC SERIES TEST CIRCUIT



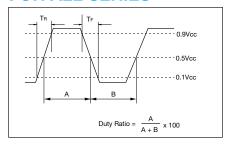
K50/K30 3C SERIES TEST CIRCUIT



K50H 3C SERIES TEST CIRCUIT



OUTPUT WAVE FORM FOR ALL SERIES



SPECIFICATIONS

Туре	Frequency Range (MHz)	Load	Drive Level	Duty Ratio	Features
K50-HC	8 to 68	C∟=50pF (max.) (fo≤50MHz)	CMOS VoH0.9Vcc VoL0.1Vcc	45/55% (0.5Vcc)	IR Reflowable Mini-SMD Tristate Output, Enable/Disable Function F>50MHz C:=15pF
K50-3C	8 to 80	C _L =15pF (max.)	CMOS Voh0.9Vcc Vol0.1Vcc	40/60% (0.5Vcc)	3.3V Available IR Reflowable Mini-SMD Tristate Output, Enable/Disable Function
K50H-3C	50 to 160	C _L =15pF (max.)	CMOS Voh0.9Vcc Vol0.1Vcc	45/55% (0.5Vcc)	3.3V Available IR Reflowable Mini-SMD Tristate Output, Enable/Disable Function
K30-HC	8 to 50	C∟=50pF (max.) (fo≤50MHz)	CMOS VoH0.9Vcc VoL0.1Vcc	45/55% (0.5Vcc)	IR Reflowable Mini-SMD Tristate Output, Enable/Disable Function
K30-3C	8 to 67	C _L =15pF (max.)	CMOS VoH0.9Vcc VoL0.1Vcc	40/60% (0.5Vcc)	3.3V Available IR Reflowable Mini-SMD Tristate Output, Enable/Disable Function

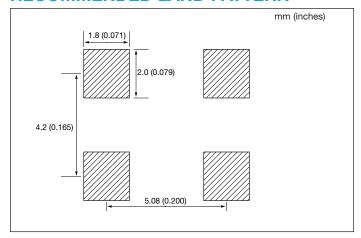


Clock Oscillators (SMD)

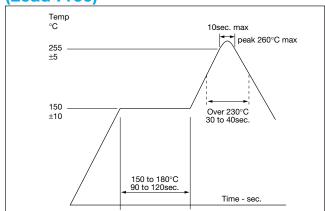
K50/K50H Series



RECOMMENDED LAND PATTERN

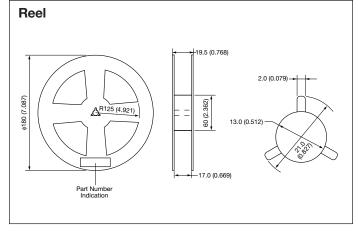


RECOMMENDED REFLOW PROFILE (Lead Free)

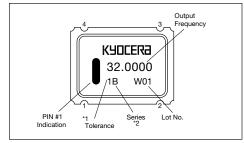


PACKAGING

millimeters (inches)



MARKING SPECIFICATIONS



*1 1 = ±100ppm 0 = ± 50ppm S = ± 30ppm U = ± 25ppm *2 B = K50-HC L = K50-3C-E M = K50-3C-SE D = K50-CL H = K50H-3C-SE

Carrier Tape (1.5 (0.059) (0.315) (0.0157) (0.059) (0.0157) (0.0157) (0.059) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157) (0.0157)

PACKAGING

1,000pcs/Reel

