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Clock Oscillators (SMD)



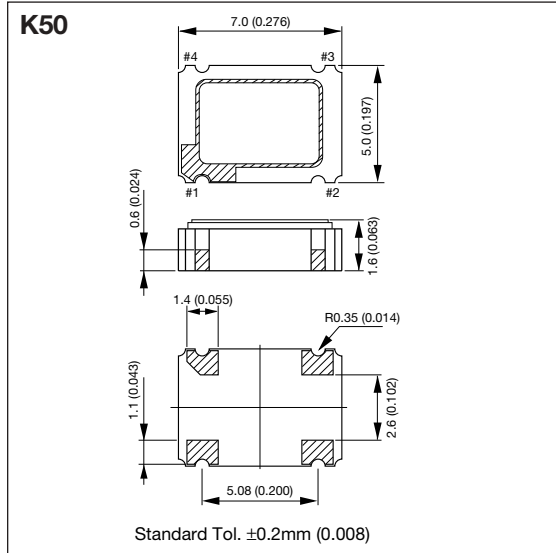
K50-HC Series (5.0V)

K50 SERIES



DIMENSIONS

millimeters (inches)



FEATURES

- High reliable SMD ceramic package
- Frequency range = 8MHz to 68MHz
- Frequency tolerance = $\pm 100\text{ppm}$, $\pm 50\text{ppm}$
- Tristate output inhibit

APPLICATIONS

- Routers
- Switches
- Servers

HOW TO ORDER

K50 - HC 1 C S E 40.0000M R

Series

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

Packaging

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

Frequency (MHz)

| | | |
|----------|---------|---------|
| 8.0000 | 27.0000 | 49.1520 |
| 14.31818 | 29.4989 | 50.0000 |
| 16.0000 | 30.0000 | 60.0000 |
| 20.0000 | 32.0000 | 64.0000 |
| 24.0000 | 33.8688 | 66.6667 |
| 24.5760 | 40.0000 | — |
| 25.0000 | 48.0000 | — |

Tristate Output

E = with function (STD)

Duty Ratio

S = 45% to 55% (STD)

Output

C = CMOS/Compatibility

PIN CONNECTION

| Pin # | Function |
|-------|------------------|
| 1 | CONTROL |
| 2 | CASE GND |
| 3 | OUTPUT |
| 4 | +V _{CC} |

ENABLE/DISABLE

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

SPECIFICATIONS

| Items | Code | Rating | Unit | Remarks |
|-----------------------|---------------------------------|--------------------------|-------|--|
| Output Frequency | F _{OUT} | 8 to 68 | MHz | — |
| Frequency Tolerance | $\Delta F/F$ | ± 100 , ± 50 | ppm | Over all conditions |
| Aging | $\Delta F/F$ | ± 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 @ 68MHz |
| Disable Current | I _{DE} | 30 max. | mA | — |
| Duty Ratio | SYM | 45 to 55 | % | 0.5V _{CC} DC Level |
| Output 0 Level | V _{OL} | 0.1 V _{CC} max. | V | I _{OL} = 16mA |
| Output 1 Level | V _{OH} | 0.9 V _{CC} min. | V | I _{OH} = -16mA |
| Rise/Fall Time | T _R , T _F | 10 max. | nsec | 0.1V _{CC} -0.9V _{CC} |
| Load Capacitance | C _L | 50 max. | pF | F>50MHz C _L =15pF (max.) |
| 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.

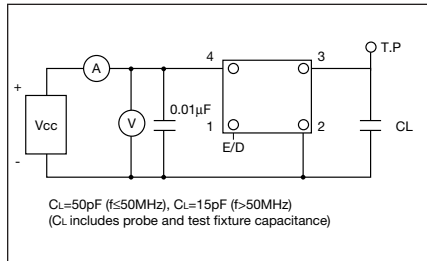
Clock Oscillators



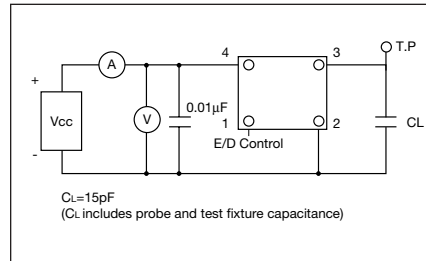
K30/K50 Series

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

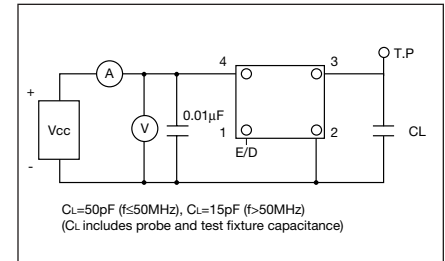
K50/K30 HC SERIES TEST CIRCUIT



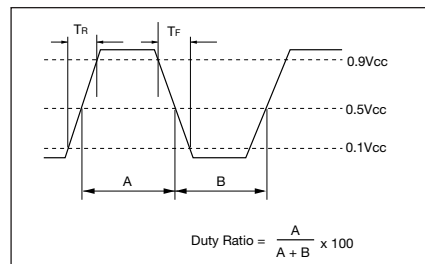
K50/K30 3C SERIES TEST CIRCUIT



K50H 3C SERIES TEST CIRCUIT



OUTPUT WAVE FORM FOR ALL SERIES



SPECIFICATIONS

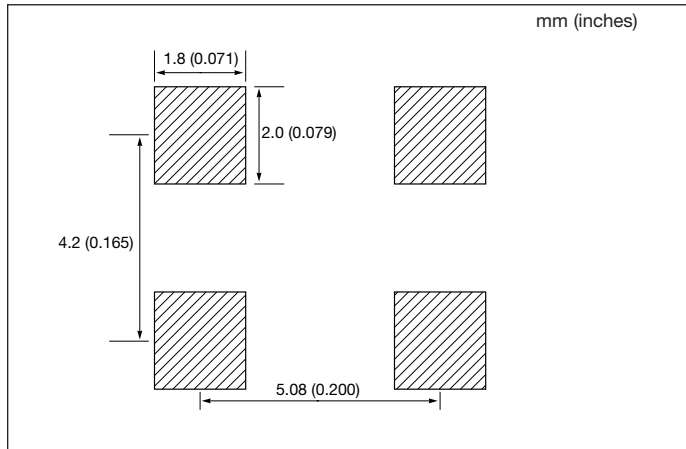
| Type | Frequency Range (MHz) | Load | Drive Level | Duty Ratio | Features |
|---------|-----------------------|---|--|--------------------|---|
| K50-HC | 8 to 68 | $C_L=50\text{pF}$ (max.) ($f \leq 50\text{MHz}$) | CMOS $V_{OH}=0.9V_{CC}$ $V_{OL}=0.1V_{CC}$ | 45/55% (0.5Vcc) | 1. IR Reflowable 2. Mini-SMD 3. Tristate Output, Enable/Disable Function F>50MHz $C_L=15\text{pF}$ |
| K50-3C | 8 to 80 | $C_L=15\text{pF}$ (max.) | CMOS $V_{OH}=0.9V_{CC}$ $V_{OL}=0.1V_{CC}$ | 40/60% (0.5Vcc) | 1. 3.3V Available 2. IR Reflowable 3. Mini-SMD 4. Tristate Output, Enable/Disable Function |
| K50H-3C | 50 to 160 | $C_L=15\text{pF}$ (max.) | CMOS $V_{OH}=0.9V_{CC}$ $V_{OL}=0.1V_{CC}$ | 45/55% (0.5Vcc) | 1. 3.3V Available 2. IR Reflowable 3. Mini-SMD 4. Tristate Output, Enable/Disable Function |
| K30-HC | 8 to 50 | $C_L=50\text{pF}$ (max.) ($f \leq 50\text{MHz}$) | CMOS $V_{OH}=0.9V_{CC}$ $V_{OL}=0.1V_{CC}$ | 45/55% (0.5Vcc) | 1. IR Reflowable 2. Mini-SMD 3. Tristate Output, Enable/Disable Function |
| K30-3C | 8 to 67 | $C_L=15\text{pF}$ (max.) | CMOS $V_{OH}=0.9V_{CC}$ $V_{OL}=0.1V_{CC}$ | 40/60% (0.5Vcc) | 1. 3.3V Available 2. IR Reflowable 3. Mini-SMD 4. Tristate Output, Enable/Disable Function |

Clock Oscillators (SMD)

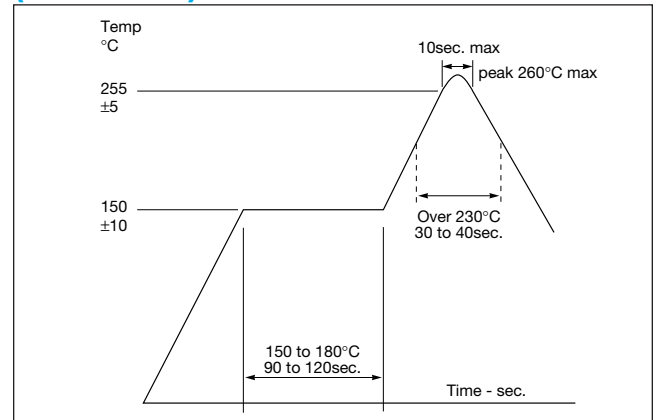


K50/K50H Series

RECOMMENDED LAND PATTERN

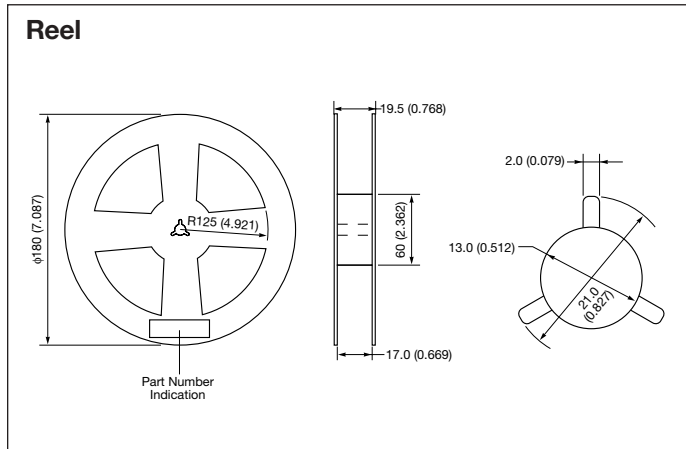


RECOMMENDED REFLOW PROFILE (Lead Free)

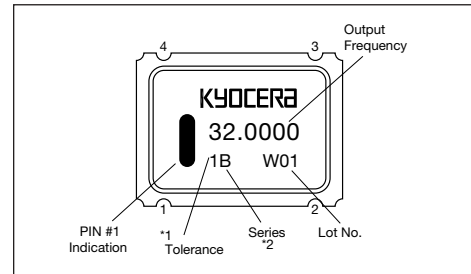


PACKAGING

millimeters (inches)

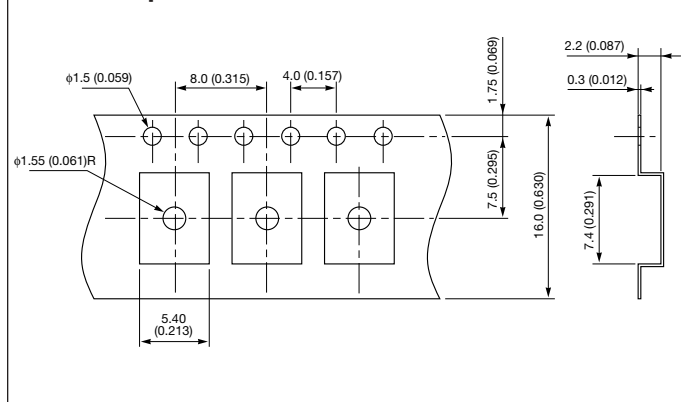


MARKING SPECIFICATIONS



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

Carrier Tape



PACKAGING

1,000pcs/Reel