



Clock Oscillators Surface Mount Type

KC5032P-P2/ KC5032P-P3 Series



LV-PECL/ 3.3V or 2.5V/ 5.0×3.2mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- LV-PECL output
- Supply voltage $V_{CC} = 3.3V, 2.5V$
- $\pm 25 \times 10^{-6}$ available
- Low Phase Noise

Table 1

Freq. Tol. Code	Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note
0	± 50	0 to +70	Standard specifications
S	± 30		
U	± 25	-40 to +85	Please contact us for available frequencies.
F	± 100		
G	± 50	-40 to +105	
6	± 50		

How to Order

KC5032P 125.000 P □ □ J 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Series
- ② Output Frequency
- ③ Output Type (LV-PECL)
- ④ Supply Voltage (3 : 3.3V or 2 : 2.5V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ INH Function
J : 45/ 55%, Stand-by
- ⑦ Individual Specification (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions	Specifications		Units
			KC5032P-P2	KC5032P-P3	
Output Frequency Range ^{Note1}	f_o		25 to 175		MHz
Frequency Tolerance	f_{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration	$\pm 50/ -40$ to $+105^\circ C$		ppm
			$\pm 100/ -40$ to $+85^\circ C$		
			$\pm 50/ -40$ to $+85^\circ C$		
			$\pm 50/ 0$ to $+70^\circ C$		
			$\pm 30/ 0$ to $+70^\circ C$		
Storage Temperature Range	T_{stg}	Standard Specifications Extend (Option)	-55 to $+125$		°C
			0 to $+70/ -40$ to $+85$ -40 to $+105$		°C
Max. Supply Voltage	—		-0.5 to $+5.0$		V
Supply Voltage	V_{CC}		$+2.375$ to $+2.625$	$+2.97$ to $+3.63$	V
Current Consumption	I_{CC}		70 max.		mA
Stand-by Current	I_{std}		20 max.		μA
Symmetry	SYM	50ohm @crossing point	50 \pm 5		%
Rise/ Fall Time (20% V_{CC} to 80% V_{CC} Maximum Loaded)	t_r/ t_f	50ohm	0.6 max.		ns
Low Level Output Voltage ^{Note2}	V_{OL}		$V_{CC} - 1.810$ to $V_{CC} - 1.620$		V
High Level Output Voltage ^{Note2}	V_{OH}		$V_{CC} - 1.025$ to $V_{CC} - 0.880$		V
Output Load	RL		50		ohm
Input Voltage Range	V_{IN}		0 to V_{CC}		V
Low Level Input Voltage	V_{IL}		30% V_{CC} max.		V
High Level Input Voltage	V_{IH}		70% V_{CC} min.		V
Disable Time	t_{dis}		150 max.		ns
Enable Time	t_{ena}		10 max.		ms
Start-up Time	t_{str}	@Minimum operating voltage to be 0 sec.	10 max.		ms
Deterministic Jitter	DJ	Measured with Wavecrest SIA-3000	2 max.		ps
1 Sigma Jitter	J_{σ}		4 max.		ps
Peak to Peak Jitter	J_{PK-PK}		30 max.		ps
Phase Jitter	J_{Phase}	@156.25MHz $V_{CC} = 3.3V$	BW : 12kHz to 20MHz	0.3 max.	ps

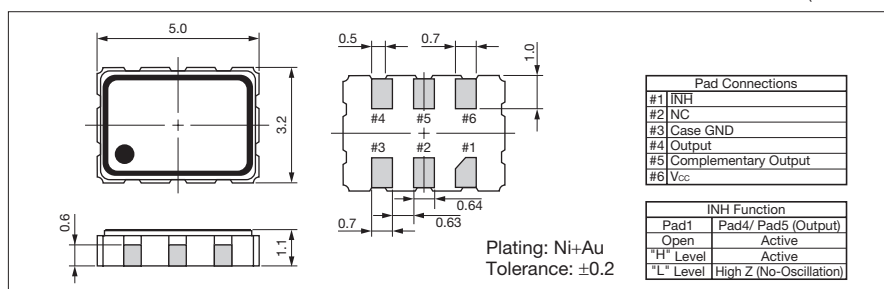
Note : All electrical characteristics are defined at the maximum load and operating temperature range.

Note1: Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

Note2: DC characteristic

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

