

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 $V_{CC} = 3.3V$
- $\pm 25 \times 10^{-6}$ available

Table 1

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

How to Order

KC5032P 125.000 P 3 0 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 (45/ 55%, Stand-by)
J : Low Phase Noise
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Specifications		Units	Conditions
		KC5032P-P2	KC5032P-P3		
Output Frequency Range ^{Note1}	f _o	25 to 175		MHz	
Frequency Tolerance	f _{tol}	$\pm 50/ -40$ to $+105^{\circ}C$		ppm	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration
		$\pm 100/ -40$ to $+85^{\circ}C$			
		$\pm 50/ -40$ to $+85^{\circ}C$			
		$\pm 50/ 0$ to $+70^{\circ}C$			
		$\pm 30/ 0$ to $+70^{\circ}C$			
		$\pm 25/ 0$ to $+70^{\circ}C$			
Storage Temperature Range	T _{stg}	-55 to +125		°C	
Operating Temperature Range	T _{use}	0 to +70		°C	Standard Specifications Extend (Option)
		-40 to +105			
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}	90 max.		mA	
Stand-by Current	I _{std}	30 max.		µA	
Symmetry	SYM	50±5		%	50ohm @crossing point
Rise/ Fall Time (20% V _{CC} to 80% V _{CC} Maximum Loaded)	tr/ tf	0.6 max.		ns	50ohm
Low Level Output Voltage ^{Note2}	V _{OL}	V _{CC} -1.810 to V _{CC} -1.405	V _{CC} -1.810 to V _{CC} -1.620	V	
		V _{CC} -1.830 to V _{CC} -1.305	V _{CC} -1.830 to V _{CC} -1.555		
High Level Output Voltage ^{Note2}	V _{OH}	V _{CC} -1.025 to V _{CC} -0.740	V _{CC} -1.025 to V _{CC} -0.880	V	
		V _{CC} -1.085 to V _{CC} -0.880	V _{CC} -1.085 to V _{CC} -0.900		
Output Load	RL	50		ohm	
Input Voltage Range	V _{IN}	0 to V _{CC}			
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}	10 max.		ms	@Minimum operating voltage to be 0 sec.
Deterministic Jitter	DJ	2 max.		ps	
1 Sigma Jitter	J _{Sigma}	4 max.		ps	Measured with Wavecrest SIA-3000
Peak to Peak Jitter	J _{PK-PK}	30 max.		ps	

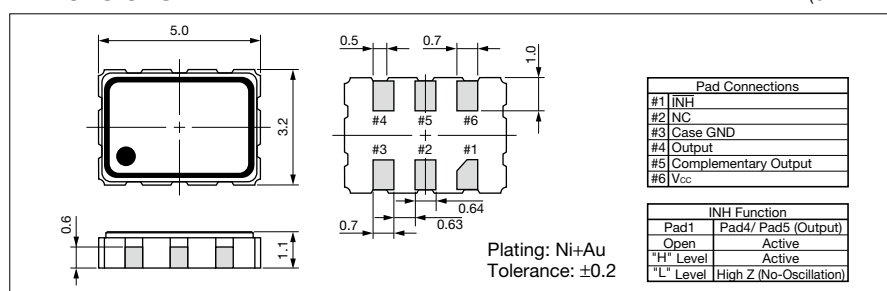
Note : All electrical characteristics are defined at the maximum load and operating temperature range.

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)

