



LV-PECL/ 3.3V or 2.5V/ 7.0×5.0mm



RoHS Compliant

Features

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

Table 1

Freq. Code	Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note	
O	± 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

KC7050P 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%
- ⑦ Individual Specification
(STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions		Specifications		Unit
				KC7050P-P2	KC7050P-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		±50/ -40 to +105°C		× 10 ⁻⁶
				±100/ -40 to +85°C		
				±50/ -40 to +85°C		
				±50/ 0 to +70°C		
				±30/ 0 to +70°C		
				±25/ 0 to +70°C		
Storage Temperature Range	T _{stg}			-55 to +125		°C
Operating Temperature Range	T _{use}	Standard Specifications		0 to +70/ -40 to +85		°C
		Extend (Option)		-40 to +105		
Max. Supply Voltage	—			-0.3 to +4.0		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}			30 max.		μA
Symmetry	SYM	50ohm @crossing point		50±5		%
Rise/ Fall Time (20% V _{CC} to 80% V _{CC} Maximum Loaded)	Tr/ Tf	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}		
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}			200 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 _{Sigma}			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

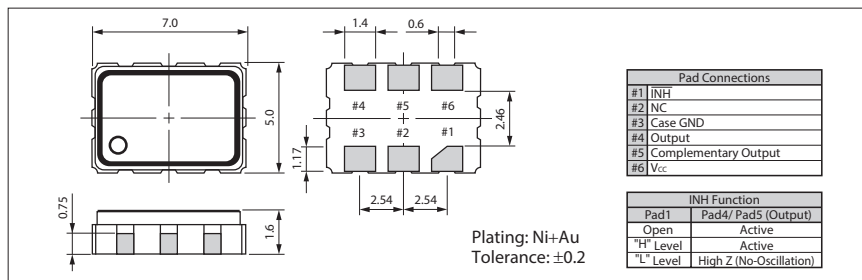
Note : All electrical characteristics are defined at the maximum load and operating temperature range.

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)

