

LV-PECL/ 3.3V/ 7.0×5.0mm



RoHS Compliant

Features

- Excellent Jitter performance
- Complementary LV-PECL outputs
- Operation at fundamental high frequency
- $\pm 50 \times 10^{-6}$ Available

Table 1

Freq. Code	Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note
1	± 100	0 to +70	Standard specifications
0	± 50		With only certain frequencies
A	± 100		

How to Order

KC7050Y 312.500 P 3 1 E 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (7.0×5.0mm SMD)
- ② Output Frequency
- ③ Output Type (PECL)
- ④ Supply Voltage (3.3V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ INH Function (45/ 55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions		Min.	Max.	Units
Output Frequency Range ^{Note1}	f _o			75	700	MHz
Frequency Tolerance ^{Note2}	f _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration	Op. Temp.: 0 to +70°C	-50	+50	×10 ⁻⁶
			Op. Temp.: 0 to +70°C	-100	+100	
			Op. Temp.: -5 to +85°C	-100	+100	
Storage Temperature Range	T _{stg}			-55	+125	°C
Operating Temperature Range	T _{use}	Standard Specifications		0	+70	°C
Max. Supply Voltage	—			-0.3	+5	V
Supply Voltage	V _{CC}	3.3V		+2.97	+3.63	V
Current Consumption (Standard Loaded)	I _{CC}			—	100	mA
Symmetry	SYM	50ohm @crossing point		45	55	%
Rise/ Fall Time (20% to 80% Output Level Standard Loaded)	tr/ tf	50ohm		—	400	ps
Low Level Output Voltage ^{Note3}	V _{OL}	0 to +85°C/ Typ. 1.600V		V _{CC} -1.810	V _{CC} -1.620	V
		-5 to 0°C/ Typ. 1.605V		V _{CC} -1.830	V _{CC} -1.555	
High Level Output Voltage ^{Note3}	V _{OH}	0 to +85°C/ Typ. 2.350V		V _{CC} -1.025	V _{CC} -0.880	
		-5 to 0°C/ Typ. 2.295V		V _{CC} -1.085	V _{CC} -0.900	
Output Load	RL	LV-PECL Output		50		ohm
Input Voltage Range	V _{IN}			0	V _{CC}	V
Low Level Input Voltage	V _{IL}			—	30% V _{CC}	V
High Level Input Voltage	V _{IH}			70% V _{CC}	—	V
Disable Time	t _{dis}			—	200	ns
Enable Time	t _{ena}			—	10	ms
Start-up Time	t _{str}	@Minimum operating voltage to be 0 sec.		—	10	ms
Deterministic Jitter (DJ)	DJ	Measured with Wavecrest DTS-2079 VIS/ 6.3.1		0.2 typ.		ps
1 Sigma Jitter	J _{Sigma}			2 typ.		ps
Peak to Peak Jitter	J _{PK-PK}			20 typ.		ps

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

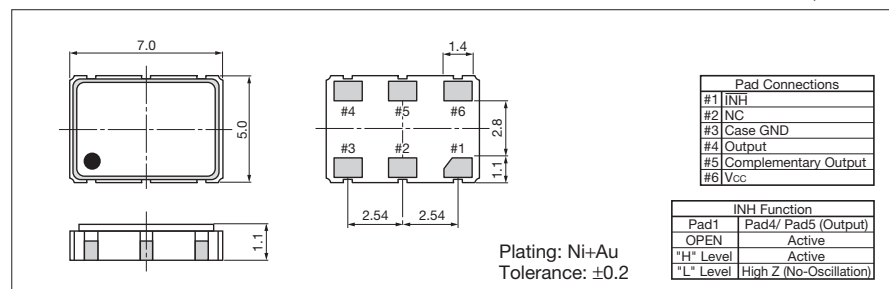
Note1: Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

Note2: Aging (10 years @25°C) can correspond.

Note3: DC characteristic

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

