



Pb Free

RoHS Compliant

Features

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

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		
F	± 100	-40 to +85	With only certain frequencies
G	± 50		

How to Order

KC7050P 125.000 P 2 0 E 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (7.0×5.0mm SMD)
- ② Output Frequency
- ③ Output Type (LV-PECL)
- ④ Supply Voltage (2.5V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ Enable Function (45/55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000pcs./reel)

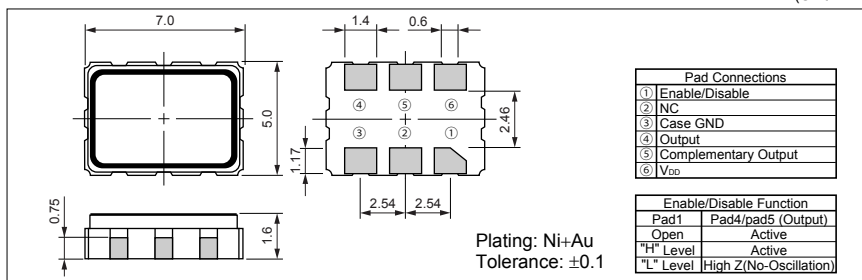
Specifications

Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range	Fo		75	170	MHz	
Frequency Tolerance	F _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration	Op. Temp.: -40 to +85°C	-100	+100	$\times 10^{-6}$
			Op. Temp.: 0 to +70°C/ -40 to +85°C	-50	+50	
			Op. Temp.: 0 to +70°C/ -40 to +85°C	-30	+30	
			Op. Temp.: 0 to +70°C	-25	+25	
Storage Temperature Range	T _{stg}		-55	+125	°C	
Operating Temperature Range	T _{use}	Standard Specifications	0	+70	°C	
		Extend (Option)	-40	+85		
Max. Supply Voltage	—		-0.5	+5	V	
Supply Voltage	V _{DD}		2.375	2.625	V	
Current Consumption	I _{DD}		—	90	mA	
Stand-by Current	I _{std}		—	30	μA	
Symmetry	SYM	50 ohm @50% Output Swing	45	55	%	
Rise/Fall Time (20% V _{DD} to 80% V _{DD})	Tr/Tf	50 ohm	—	0.6	nS	
Output Voltage-"L"	V _{OL}	Op. Temp.: 0 to +85°C/ Typ. 0.800V	V _{DD} -1.810	V _{DD} -1.405	V	
		Op. Temp.: -40 to 0°C/ Typ. 0.805V	V _{DD} -1.830	V _{DD} -1.305		
Output Voltage-"H"	V _{OH}	Op. Temp.: 0 to +85°C/ Typ. 1.550V	V _{DD} -1.025	V _{DD} -0.740	V	
		Op. Temp.: -40 to 0°C/ Typ. 1.495V	V _{DD} -1.085	V _{DD} -0.800		
Output Load	L _{ECL}	LV-PECL Output	50		ohm	
Input Voltage Range	V _{IN}		0	V _{DD}	V	
Input Voltage-"L"	V _{IL}		—	30% V _{DD}	V	
Input Voltage-"H"	V _{IH}		70% V _{DD}	—	V	
Disable Time	—		—	150	nS	
Enable Time	—		—	5	mS	
Start-up Time	ST	@Minimum Operation Voltage to be 0 sec.	—	10	mS	
Deterministic Jitter (DJ)	DJ	Measured with Wavecrest DTS-2079 VIS/ 6.3.1	—	2	pS	
1Sigma jitter	1sigma		—	4	pS	
Peak to Peak Jitter	Pk-Pk		—	30	pS	

Note: All electrical characteristics are defined at the maximum load and operating temperature range.
 Please contact us for inquiries about operating temperature range, available frequencies and other conditions.

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)

