

Pb Free

RoHS Compliant

Features

- Low jitter
- Complementary LV-PECL outputs
- Operation at fundamental high frequency

How to Order

KC7050S 312.500 P 3 1 E 00
 ① ② ③④⑤⑥ 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/Enable Function (45/55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000pcs./reel)

Table 1

Freq. Tol. Code	×10 ⁻⁶	Operating Temperature Range (°C)	Note
1	±100	0 to +70	Standard specifications

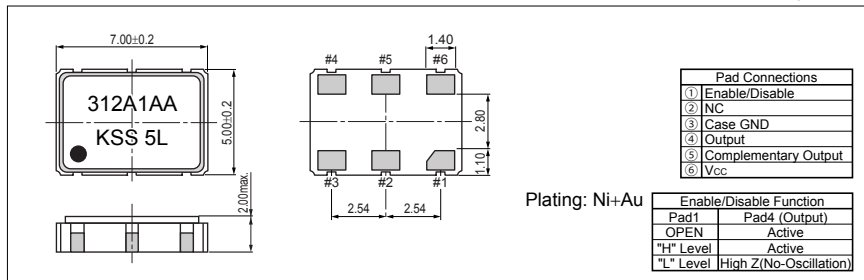
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	F _o		50	700	MHz
Frequency Tolerance	F _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration	-100	+100	×10 ⁻⁶
Storage Temperature Range	T _{stg}		-55	+125	°C
Operating Temperature Range	T _{use}	Standard Specifications	0	+70	°C
Max. Supply Voltage	—		-0.5	+5	V
Supply Voltage	V _{cc}		3.14	3.46	V
Current Consumption (Standard Loaded)	I _{cc}		—	60	mA
Symmetry	SYM	50MHz≤F _o ≤350MHz	45	55	%
		350MHz<F _o ≤700MHz	40	60	
Rise/ Fall Time (20% V _{cc} to 80% V _{cc} Standard Loaded)	Tr/Tf	50MHz≤F _o ≤400MHz	—	600	pS
		400MHz<F _o ≤700MHz	—	400	
Output Voltage-"L"	V _{OL}		—	1.68	V
Output Voltage-"H"	V _{OH}		2.275	—	V
Output Load (PECL)	L _{ECL}	PECL 50Ω @Terminated V _{cc} -2V	49.5	50.5	ohm
Input Voltage Range	V _{IN}		0	V _{cc}	V
Input Voltage-"L"	V _{IL}		—	30% V _{cc}	V
Input Voltage-"H"	V _{IH}		70% V _{cc}	—	V
Disable Time	—		—	200	nS
Enable Time	—		—	2	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	0.2 typ.		ps
1 Sigma Jitter	1 Sigma		3 typ.		ps
Peak to Peak Jitter	Pk-Pk		20 typ.		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)

