

Pb Free

RoHS Compliant

Features

- Low Voltage 3.3V
- Low Jitter
- LVDS output
- Operation at Fundamental high frequency

Table 1

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

How to Order

KC7050S 312.500 L 3 1 E 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (7.0×5.0mm SMD)
- ② Output Frequency
- ③ Output Type (LVDS)
- 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 1000 pcs./ reel)

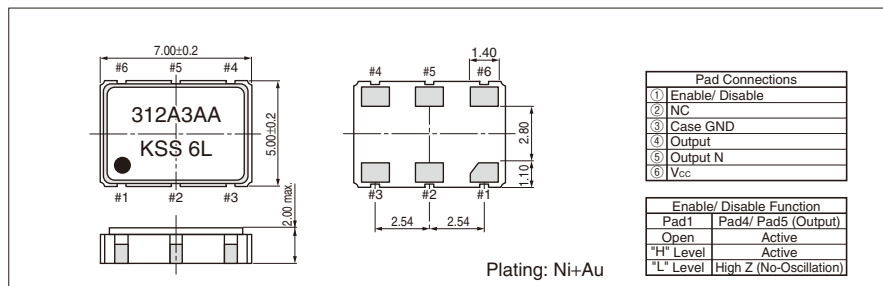
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo		50	700	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 Op. Temp.: 0 to +70°C	-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}	3.3V	3.14	3.46	V
Current Consumption (Standard Loaded)	I _{cc}		—	70	mA
Symmetry	SYM		45	55	%
Rise/ Fall Time (20% to 80% Output Level Standard Loaded)	tr/ tf		—	600	pS
Low Level Output Voltage	V _{OL}	Typ. 1.1V	0.9	—	V
High Level Output Voltage	V _{OH}	Typ. 1.43V	—	1.6	V
Differential Output Voltage	V _{OD}	Typ. 330mV	247	454	mV
Differential Output Voltage Error	dV _{OD}	dV _{OD} = V _{OD1} -V _{OD2}	—	50	mV
Offset Voltage	V _{OS}	Typ. 1.25V	1.125	1.375	V
Offset Voltage Error	dV _{OS}	dV _{OS} = V _{OS1} -V _{OS2}	—	50	mV
Output Load	RL	LVDS Output	100		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 VISI 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 standard load and operating temperature range.
 Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

