



LVDS/ 3.3V or 2.5V/ 7.0×5.0mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- LVDS output
- Supply voltage Vcc=3.3V, 2.5V
- ±25×10⁻⁶ available
- Low Phase Noise

Table 1

Freq. Code	Tol. × 10 ⁻⁶	Operating Temperature Range (°C)	Note
0	± 50	0 to +70	Standard specifications
S	± 30		
U	± 25	-40 to +85	Please contact us for available frequencies.
F	±100		
G	± 50		
6	± 50	-40 to +105	

How to Order

KC7050P 125.000 L □ □ J 00
① ② ③ ④ ⑤ ⑥ ⑦

- ①Series
- ②Output Frequency
- ③Output Type (LVDS)
- ④Supply Voltage (3 : 3.3V or 2 : 2.5V)
- ⑤Frequency Tolerance (See Table 1)
- ⑥Symmetry/ INH Function
J : 45/ 55%
- ⑦Individual Specification (STD Specification is "00").

Packaging (Tape & Reel 1000 pcs./ reel)

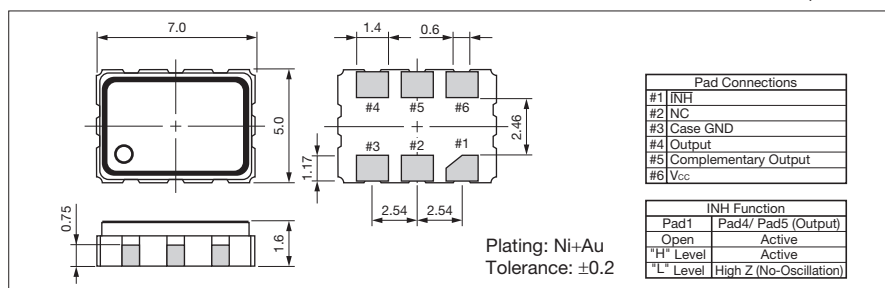
Specifications

Item	Symbol	Conditions	Specifications		Unit
			KC7050P-L2	KC7050P-L3	
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		
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	—		-0.5 to +5.0		V
Supply Voltage	V _{cc}		+2.375 to +2.625	+2.97 to +3.63	V
Current Consumption	I _{cc}		50 max.		mA
Stand-by Current	I _{std}		20 max.		µA
Symmetry	SYM	100ohm @crossing point	50±5		%
Rise/ Fall Time (20% V _{cc} to 80% V _{cc} Maximum Loaded)	Tr/ Tf	100ohm	0.6 max.		ns
Low Level Output Voltage ^{Note2}	VoL		0.9 min. Typ.:1.1		V
High Level Output Voltage ^{Note2}	VoH		1.6 max. Typ.:1.43		V
Differential Output Voltage ^{Note2}	V _{OD}		247 to 454 Typ.:330		mV
Differential Output Voltage Error ^{Note2}	dV _{OD}	dV _{OD} = V _{OD1} -V _{OD2}	50 max.		mV
Offset Voltage	V _{OS}		1.125 to 1.375		V
Offset Voltage Error	dV _{OS}	dV _{OS} = V _{OS1} -V _{OS2}	50 max.		mV
Output Load	RL	LVDS Output	100		ohm
Input Voltage Range	V _{IN}		0 to V _{cc}		V
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		2 max.		ps
1 Sigma Jitter	J _{sigma}	Measured with Wavecrest SIA-3000	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	0.3max.	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

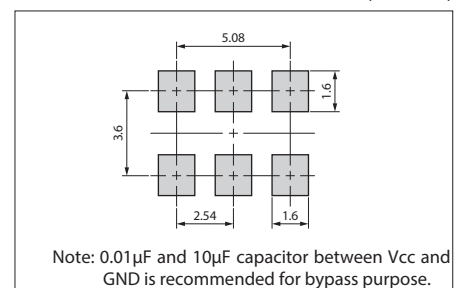
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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