



Clock Oscillators Surface Mount Type KC3225L-P2/ KC3225L-P3 Series



LV-PECL/ 3.3V or 2.5V/ 3.2×2.5mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- LV-PECL output
- Supply voltage $V_{CC} = 3.3V, 2.5V$
- $\pm 25 \times 10^{-6}$ available
- Low Phase Noise

Table 1

Freq. 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	Please contact us for available frequencies.
G	± 50		
6	± 50	-40 to +105	

How to Order

KC3225L 125.000 P ☐ ☐ J 00
① ② ③ ④ ⑤ ⑥ ⑦

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

Packaging (Tape & Reel 2000 pcs./ reel)

Specifications

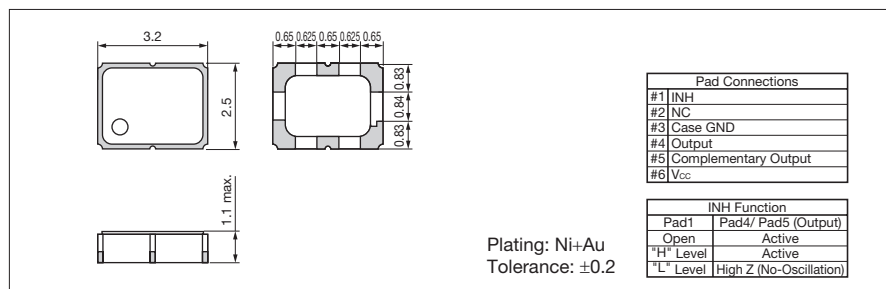
Item	Symbol	Conditions	Specifications		Units
			KC3225L-P2	KC3225L-P3	
Output Frequency Range ^{Note1}	f_o		25 to 175		MHz
Frequency Tolerance	f_{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration	$\pm 50/ -40$ to +105°C		ppm
			$\pm 100/ -40$ to +85°C		
			$\pm 50/ -40$ to +85°C		
			$\pm 50/ 0$ to +70°C		
			$\pm 30/ 0$ to +70°C		
Storage Temperature Range	T_{stg}		-55 to +125		°C
Operating Temperature Range	T_{use}	Standard Specifications Extend (Option)	0 to +70/ -40 to +85		°C
Max. Supply Voltage	—		-40 to +105		V
Supply Voltage	V_{CC}		-0.5 to +5.0		V
Current Consumption	I_{CC}	$\leq 156.25\text{MHz}$ $156.25\text{MHz} <$	60 max. 70 max.	+2.375 to +2.625 +2.97 to +3.63	mA
Stand-by Current	I_{std}		20 max.		μA
Symmetry	SYM	50ohm @crossing point	50±5		%
Rise/ Fall Time (20% V_{CC} to 80% V_{CC} Maximum Loaded)	t_r/ t_f	50ohm	0.6 max.		ns
Low Level Output Voltage ^{Note2}	V_{OL}		$V_{CC}-1.810$ to $V_{CC}-1.620$		V
High Level Output Voltage ^{Note2}	V_{OH}		$V_{CC}-1.025$ to $V_{CC}-0.880$		V
Output Load	RL		50		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}		150 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
Phase Noise	—	@156.25MHz $V_{CC} = 3.3V$	@10Hz offset	Typ. -77	dBc/ Hz
			@100Hz offset	Typ. -103	
			@1kHz offset	Typ. -133	
			@10kHz offset	Typ. -143	
			@100kHz offset	Typ. -149	
			@1MHz offset	Typ. -149	
			@10MHz offset	Typ. -154	

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

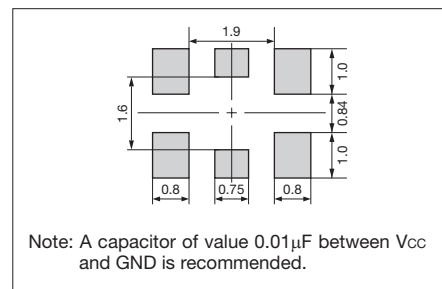
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



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