



CMOS/ 3.3V/ 3.2×2.5mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage $V_{CC}=3.3V$
- $\pm 25 \times 10^{-6}$ available

Table 1

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

How to Order

KC3225A 25.0000 C 3 □ E 00
① ② ③ ④ ⑤ ⑥ ⑦

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

Packaging (Tape & Reel 2000 pcs./ reel)

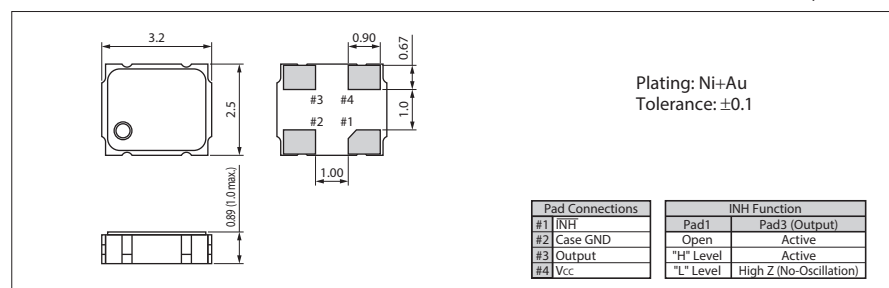
Specifications

Item	Symbol	Conditions	Min.	Max.	Unit
Output Frequency Range	f_o		1.5	125	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	Temp.: -40 to +85°C	-100	+100
			Temp.: -10 to +70°C/ -40 to +85°C/ -40 to +105°C	-50	+50
			Temp.: -10 to +70°C	-30	+30
			Temp.: -10 to +70°C	-25	+25
Storage Temperature Range	T_{stg}		-55	+125	°C
Operating Temperature Range	T_{use}	Standard Specifications	-10	+70	°C
		Extend (Option)	-40	+85	
Max. Supply Voltage	—		-0.5	+7.0	V
Supply Voltage	V_{CC}	Freq. Tol. Code: 0, S, F	+2.97	+3.63	V
		Freq. Tol. Code: U, G, 6	+3.14	+3.46	
Current Consumption (Maximum Loaded)	I_{CC}	1.5 ≤ f_o ≤ 26MHz	—	6	mA
		26 < f_o ≤ 50MHz	—	8	
		50 < f_o ≤ 67.5MHz	—	12	
		67.5 < f_o ≤ 95MHz	—	20	
		95 < f_o ≤ 125MHz	—	25	
Stand-by Current	I_{std}		—	10	μA
Symmetry	SYM	@50% V_{CC}	45	55	%
Rise/ Fall Time (10% V_{CC} to 90% V_{CC} Maximum Loaded)	T_r/ T_f	1.5 ≤ f_o ≤ 67.5MHz	—	5	ns
		67.5 < f_o ≤ 125MHz	—	3	
Low Level Output Voltage	V_{OL}	$I_{OL}=4mA$	—	10% V_{CC}	V
High Level Output Voltage	V_{OH}	$I_{OH}= -4mA$	90% V_{CC}	—	V
CMOS Load	L_{CMOS}	CMOS Output	—	15	pF
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}		—	150	ns
Enable Time	t_{ena}		—	5	ms
Start-up Time	t_{str}	@Minimum operating voltage to be 0 sec.	—	10	ms
1 Sigma Jitter	J_{Sigma}	Measured with Wavecrest SIA-3000	1.5 ≤ f_o ≤ 60MHz	—	8
			60 < f_o ≤ 125MHz	—	5
Peak to Peak Jitter	J_{PK-PK}	Measured with Wavecrest SIA-3000	1.5 ≤ f_o ≤ 60MHz	—	80
			60 < f_o ≤ 125MHz	—	40

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

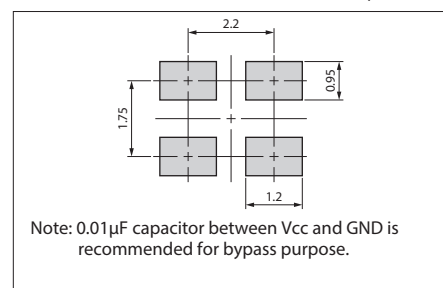
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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Kyocera:

KC3225A49.1520C30E00	KC3225A24.5760C30E00	KC3225A40.0000C30E00	KC3225A30.0000C30E00
KC3225A72.0000C30E00	KC3225A75.0000C30E00	KC3225A54.0000C30E00	KC3225A50.0000C30E00
KC3225A12.0000C30E00	KC3225A14.3182C30E00	KC3225A48.0000C30E00	KC3225A33.3333C30E00
KC3225A16.0000C30E00	KC3225A25.0000C30E00	KC3225A27.0000C30E00	KC3225A20.0000C30E00
KC3225A100.000C30E00	KC3225A125.000C30E00	KC3225A100.000C3GE00	KC3225A125.000C3GE00
KC3225A106.250C3GE00	KC3225A19.2000C3GE00	KC3225A4.00000C3GE00	KC3225A25.0000C3GE00
KC3225A16.0000C3GE00	KC3225A50.0000C3GE00	KC3225A24.5760C3GE00	KC3225A1.84320C3GE00
KC3225A30.0000C3GE00	KC3225A60.0000C3GE00	KC3225A48.0000C3GE00	KC3225A3.68640C3GE00
KC3225A14.3182C3GE00	KC3225A7.37280C3GE00	KC3225A40.0000C3GE00	KC3225A27.0000C3GE00
KC3225A44.0000C3GE00	KC3225A10.0000C3GE00	KC3225A24.0000C3GE00	KC3225A18.4320C3GE00
KC3225A80.0000C3GE00	KC3225A8.00000C3GE00	KC3225A20.0000C3GE00	KC3225A12.0000C3GE00
KC3225A106.250C30E00	KC3225A10.0000C30E00		