



CMOS/ 2.5V/ 3.2×2.5mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage $V_{CC}=2.5V$
Lower voltage available
- $\pm 25 \times 10^{-6}$ available

Table 1

Freq. Tol.		Operating Temperature Range (°C)	Note	
Code	$\times 10^{-6}$			
0	± 50	-10 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

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

- ① Series
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (2.5V)
- 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)

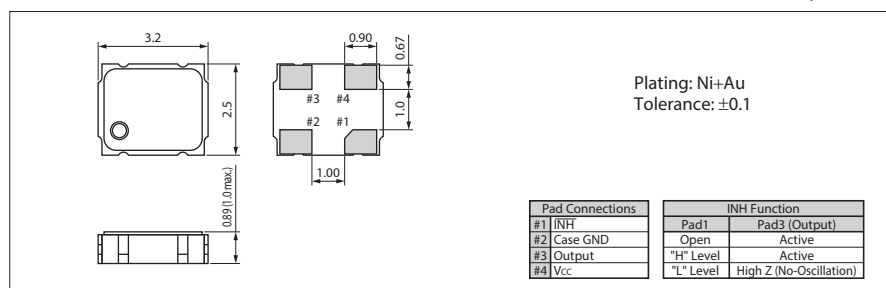
Specifications

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	× 10 ⁻⁶
			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	
				-40	+105	
Max. Supply Voltage	—			-0.5	+7.0	V
Supply Voltage	V _{CC}	Freq. Tol. Code: 0, S, F		+2.25	+2.75	V
		Freq. Tol. Code: U, G, 6		+2.38	+2.62	
Current Consumption (Maximum Loaded)	I _{CC}	1.5≤f _o ≤26MHz		—	4	mA
		26<f _o ≤50MHz		—	6	
		50<f _o ≤67.5MHz		—	9	
		67.5<f _o ≤95MHz		—	14	
		95<f _o ≤125MHz		—	18	
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)	Tr/ Tf	1.5≤f _o ≤67.5MHz		—	6	ns
		67.5<f _o ≤125MHz		—	4	
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	ps
			60<f _o ≤125MHz	—	5	
Peak to Peak Jitter	J _{PK-PK}	Measured with Wavecrest SIA-3000	1.5≤f _o ≤60MHz	—	80	ps
			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)

