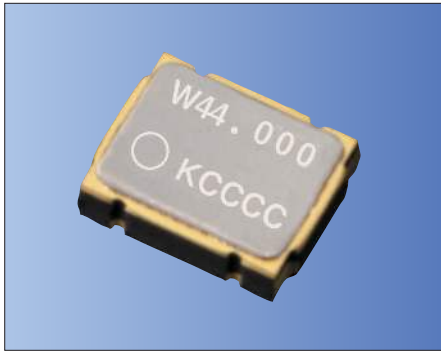




CMOS/ 2.5V/ 3.2x2.5mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage Vcc=2.5V
Lower voltage available
- ±25×10⁻⁶ available

How to Order

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

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

Packaging (Tape & Reel 2000 pcs./ reel)

Table 1

Freq. Tol. Code	Tolerance × 10 ⁻⁶	Operating Temperature Range (°C)	Note
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		

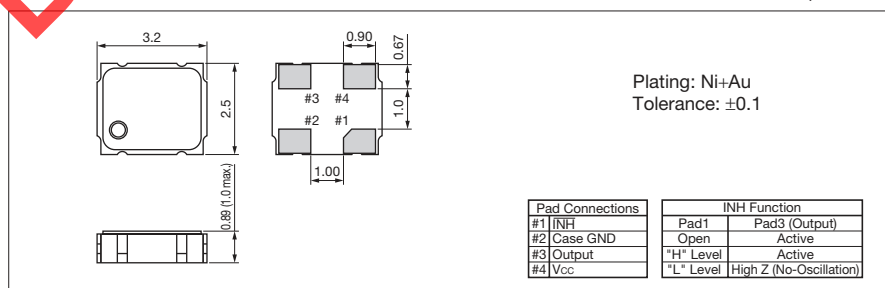
Specifications

Item	Symbol	Conditions	Min.	Max.	Unit	
Output Frequency Range	fo		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		
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 ≤ fo ≤ 26MHz	—	4	mA	
		26 < fo ≤ 50MHz	—	6		
		50 < fo ≤ 67.5MHz	—	9		
		67.5 < fo ≤ 95MHz	—	14		
		95 < fo ≤ 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 ≤ fo ≤ 67.5MHz	—	6	ns	
		67.5 < fo ≤ 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 _L		—	30% V _{cc}	V	
High Level Input Voltage	V _{HI}		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 Wavcrest SIA-3000	1.5 ≤ fo ≤ 60MHz	—	8	ps
			60 < fo ≤ 125MHz	—	5	
Peak to Peak Jitter	J _{PK-PK}	Measured with Wavcrest SIA-3000	1.5 ≤ fo ≤ 60MHz	—	80	ps
			60 < fo ≤ 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)

