

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

How to Order

KC3225A 25.0000 C 3 0 E 00
① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (3.2×2.5mm SMD)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (3.3V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ INH Function (45/ 55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 2000 pcs./ reel)

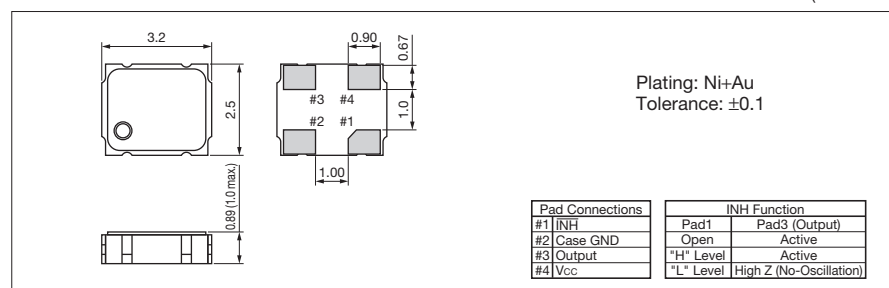
Specifications

Item	Symbol	Conditions		Min.	Max.	Units
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	Op. Temp.: -40 to +85°C	-100	+100	×10 ⁻⁶
			Op. Temp.: -10 to +70°C/ -40 to +85°C/ -40 to +105°C	-50	+50	
			Op. Temp.: -10 to +70°C	-30	+30	
			Op. 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	+105	
Max. Supply Voltage	—			-0.5	+7.0	V
Supply Voltage	Vcc	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)	Icc	1.5≤fo≤26MHz		—	6	mA
		26<fo≤50MHz		—	8	
		50<fo≤67.5MHz		—	12	
		67.5<fo≤95MHz		—	20	
		95<fo≤125MHz		—	25	
Stand-by Current	I_std			—	10	μA
Symmetry	SYM	@50% Vcc		45	55	%
Rise/ Fall Time (10% Vcc to 90% Vcc Maximum Loaded)	tr/ tf	1.5≤fo≤67.5MHz		—	5	ns
		67.5<fo≤125MHz		—	3	
Low Level Output Voltage	VOL	IOL=4mA		—	10% Vcc	V
High Level Output Voltage	VOH	IOH=-4mA		90% Vcc	—	V
CMOS Load	L_CMOS	CMOS Output		—	15	pF
Input Voltage Range	VIN			0	Vcc	V
Low Level Input Voltage	VIL			—	30% Vcc	V
High Level Input Voltage	VIH			70% Vcc	—	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	Jsigma	Measured with Wavecrest SIA-3000	1.5≤fo≤60MHz	—	8	ps
			60<fo≤125MHz	—	5	
Peak to Peak Jitter	JPK-PK	Measured with Wavecrest 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.

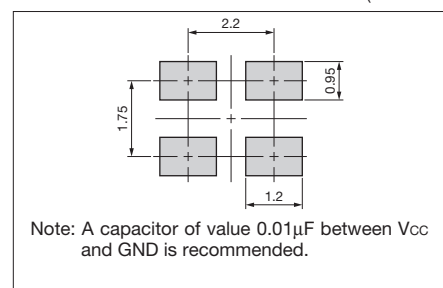
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



Mouser Electronics

Authorized Distributor

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AVX:

KC3225A49.1520C30E00	KC3225A24.5760C30E00	KC3225A40.0000C30E00	KC3225A30.0000C30E00
KC3225A72.0000C30E00	KC3225A75.0000C30E00	KC3225A54.0000C30E00	KC3225A50.0000C30E00
KC3225A12.0000C30E00	KC3225A100.000C20EJB	KC3225A14.3182C30E00	KC3225A48.0000C30E00
KC3225A33.3333C30E00	KC3225A16.0000C30E00	KC3225A25.0000C30E00	KC3225A27.0000C30E00
KC3225A20.0000C30E00	KC3225A100.000C30E00	KC3225A125.000C30E00	KC3225A31.2500C20EJB
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	