



Pb Free

RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage Vcc=3.3V
- $\pm 25 \times 10^{-6}$, $\pm 20 \times 10^{-6}$ 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		
W	± 20		
F	± 100	-40 to +85	With only certain frequencies
G	± 50		

How to Order

KC5032C 25.0000 C 3 0 E 00
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (5.0×3.2mm SMD)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (3.3V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ Enable Function (45/ 55%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

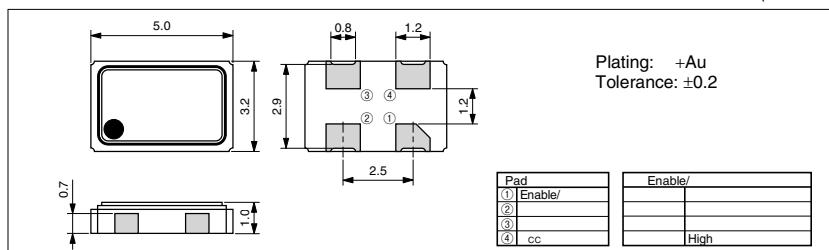
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo		1.8	170	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	
			Op. Temp.: -10 to +70°C / -40 to +85°C -50	+50	$\times 10^{-6}$
			Op. Temp.: -10 to +70°C -30	+30	
			Op. Temp.: -10 to +70°C -25	+25	
			Op. Temp.: -10 to +70°C -20	+20	
Storage Temperature Range	T_stg		-55	+125	°C
Operating Temperature Range	T_use	Standard Specifications Extend (Option)	-10	+70	°C
Max. Supply Voltage	—		-40	+85	
Supply Voltage	Vcc	Freq. Tol.Code: 0, S, F Freq. Tol.Code: U, G Freq. Tol.Code: W	2.97	3.63	V
Current Consumption (Maximum Loaded)	Icc	1.8≤fo≤20MHz	—	10	
		20<fo≤40MHz	—	15	
		40<fo≤60MHz	—	30	
		60<fo≤100MHz	—	35	
		100<fo≤135MHz	—	45	
		135<fo≤170MHz	—	60	
Stand-by Current	I_std	1.8≤fo≤135MHz 135<fo≤170MHz	—	10	μA
Symmetry	SYM	@50% Vcc	45	55	%
Rise/ Fall Time (10% Vcc to 90% Vcc Maximum Loaded)	tr/ tf	1.8≤fo≤26MHz	—	10	
		26<fo≤45MHz	—	8	nS
		45<fo≤100MHz	—	5	
		100<fo≤170MHz	—	2.5	
Low Level Output Voltage	VOH	IoL=8mA	—	10% Vcc	V
High Level Output Voltage	VOH	IoH=8mA	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 operation voltage to be 0 sec.	—	10	mS
1 Sigma Jitter	JSigma	Measured with Wavecrest DTS-2079 VISI 6.3.1	1.8≤fo<40MHz	—	pS
			40≤fo≤100MHz	—	pS
			100<fo≤170MHz	—	pS
			1.8≤fo<40MHz	—	pS
Peak to Peak Jitter	JPK-PK		40≤fo≤100MHz	—	pS
			100<fo≤170MHz	—	pS
			1.8≤fo<40MHz	—	pS

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



Recommended Land Pattern

