mail

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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CMOS/ 2.5V/ 5.0× 3.2mm



Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage Vcc=2.5V Lower voltage available
- ±25×10⁻⁶, ±20×10⁻⁶ available

Table 1

Freq. Tol.		Operating	Noto					
Code	× 10 ^{−6}	Range (°C)	NOLE					
0	± 50		Standard specifications					
S	± 30	10 to 170						
U	± 25		With only portain					
W	± 20		frequencies					
F	±100	40 to 185						
G	± 50	-40 10 +05						

How to Order

KC5032C 25.0000 C 2 0 E 00 $\overline{3}\overline{4}\overline{5}\overline{6}\overline{7}$ (2) (1)

① Type (5.0×3.2mm SMD)

- 2 Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (2.5V)
- (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 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions		Max.	Units	
Output Frequency Range	fo		1.8	125	MHz	
	f_tol	Initial tolerance, Operating Op. Temp.: -40 to +85°C	-100	+100	×10 ⁻⁶	
		temperature range, Rated Op. Temp.: -10 to +70°C/ -40 to +85	°C –50	+50		
Frequency Tolerance		power supply voltage change, Op. Temp.: -10 to +70°C	-30	+30		
		Load change, Aging (1 year Op. Temp.: -10 to +70°C	-25	+25		
		@25°C), Shock and vibration Op. Temp.: -10 to +70°C	-20	+20		
Storage Temperature Range T_stg		-55	+125	°C		
Operating Temperature Pange	T_use	Standard Specifications	-10	+70	°C	
Operating temperature hange		Extend (Option)	-40	+85	U	
Max. Supply Voltage	_			+7	V	
	Vcc	Freq. Tol.Code: 0, S, F	+2.25	+2.75	v	
Supply Voltage		Freq. Tol.Code: U, G	+2.38	+2.62		
		Freq. Tol.Code: W		+2.57		
		1.8≤fo≤20MHz		5	mA	
		20 <fo≤40mhz< td=""><td></td><td>10</td></fo≤40mhz<>		10		
Current Consumption	lcc	40 <fo≤60mhz< td=""><td></td><td>15</td></fo≤60mhz<>		15		
(Maximum Loaded)		60 <fo≤85mhz< td=""><td></td><td>20</td></fo≤85mhz<>		20		
		85 <fo≤100mhz< td=""><td></td><td>22</td></fo≤100mhz<>		22		
		100 <fo≤125mhz< td=""><td></td><td>27</td></fo≤125mhz<>		27		
Stand-by Current	I_std			10	μA	
Symmetry	SYM	@50% Vcc		55	%	
Rise/ Fall Time	tr/ tf	1.8≤fo≤40MHz		7	ns	
(10% Vcc to 90% Vcc Maximum Loaded)		40 <fo≤85mhz< td=""><td></td><td>4</td></fo≤85mhz<>		4		
		85 <fo≤125mhz< td=""><td></td><td>3</td></fo≤125mhz<>		3		
Low Level Output Voltage	Vol	IoL=4mA/ 8mA (40MHz <fo)< th=""><th>10% Vcc</th><th>V</th></fo)<>		10% Vcc	V	
High Level Output Voltage	Vон	Іон=-4mA/ -8mA (40MHz <fo)< th=""><th>—</th><th>V</th></fo)<>		—	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	Viн			-	V	
Disable Time	t_dis			150	ns	
Enable Time	t_ena			5	ms	
Start-up Time	me t_str @Minimum operating voltage to be 0 sec.			10	ms	
		1.8≤fo<40MHz		8	ps	
1 Sigma Jitter	JSigma	40≤fo≤100MHz	-	5	ps	
		Measured with Wavecrest DTS-2079 100 <fo≤125mhz< td=""><td></td><td>4</td><td>ps</td></fo≤125mhz<>		4	ps	
	Јрк-рк	VISI 6.3.1 1.8≤fo<40MHz	-	80	ps	
Peak to Peak Jitter		40≤fo≤100MHz		40	ps	
		100 <fo≤125mhz< td=""><td></td><td>30</td><td>ps</td></fo≤125mhz<>		30	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





(Unit: mm)

