

Clock Oscillators Surface Mount Type KC5032C-C3 Series (K30-3C Series) Heavy Load Type



CMOS/ 3.3V/ 5.0× 3.2mm



RoHS Compliant

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output CL=50pF max. available
- Supply voltage Vcc=3.3V

How to Order

KC5032C 25.0000 C 3 0 E HL
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/ INH Function (45/ 55%, Stand-by)
- ⑦ Heavy Load Type
HL: CL=50pF max.

Packaging (Tape & Reel 1000 pcs./ reel)

Table 1

Freq. Tol. Code	× 10 ⁻⁶	Operating Temperature Range (°C)	Note
0	±50		Standard specifications
S	±30	-10 to +70	With only certain frequencies

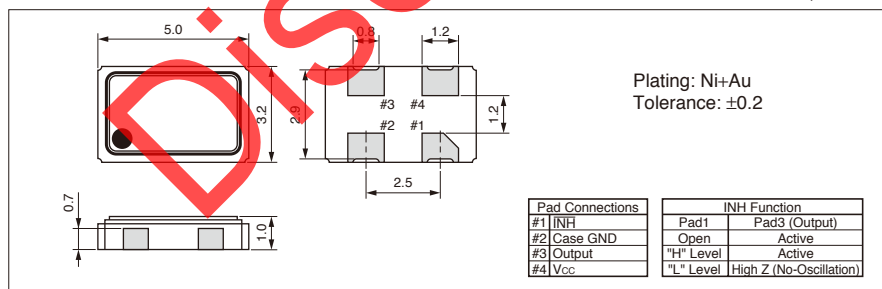
Specifications

Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range	f _o		14	30	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	-50	+50	×10 ⁻⁶	
			-30	+30		
Storage Temperature Range	T _{std}		-55	+125	°C	
Operating Temperature Range	T _{use}		-10	+70	°C	
Max. Supply Voltage	—		-0.5	+7	V	
Supply Voltage	V _{cc}	Freq. Tol.Code: 0, S	2.97	3.63	V	
Current Consumption (Maximum Loaded)	I _{cc}	CL=15pF	—	10	mA	
		CL=50pF	—	15		
Stand-by Current	I _{std}		—	10	μA	
Symmetry	SYM	@50% V _{cc}	CL=15pF	45	55	%
			CL=50pF	40	60	
Rise/ Fall Time (10% V _{cc} to 90% V _{cc} Maximum Loaded)	tr/ tf	CL=15pF	—	5	ns	
		CL=50pF	—	8		
Low Level Output Voltage	V _{OL}	I _{OL} =8mA	—	10% V _{cc}	V	
High Level Output Voltage	V _{OH}	I _{OH} =-8mA	90% V _{cc}	—	V	
CMOS Load	L _{CMOS}	CMOS Output	—	50	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 DTS-2079 V/S/ 6.3.1	—	8	ps	
Peak to Peak Jitter	J _{PK-PK}		—	80	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)



Recommended Land Pattern

(Unit: mm)

