



CMOS/ 2.5V/ 7.0×5.0mm



RoHS Compliant

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

How to Order

KC7050A 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 1000 pcs./ reel)

Table 1

Stability Code	Stability × 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	Please contact us for available frequencies.
G	± 50		
6	± 50		

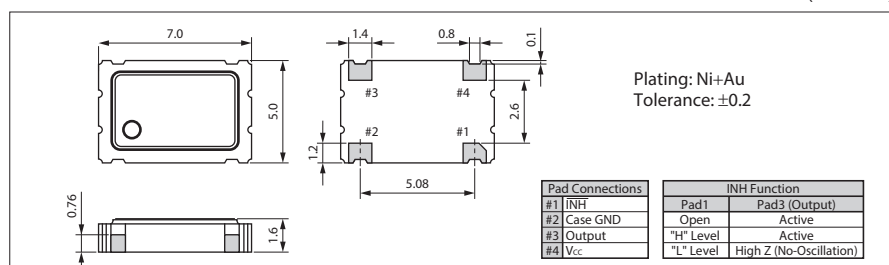
Specifications

Item	Symbol	Conditions	Min.	Max.	Unit	
Output Frequency Range	f _o		1.8	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		
		Freq. Tol. Code: W	+2.43	+2.57		
Current Consumption (Maximum Loaded)	I _{cc}	1.8 ≤ f _o ≤ 20MHz	—	5	mA	
		20 < f _o ≤ 40MHz	—	10		
		40 < f _o ≤ 60MHz	—	15		
		60 < f _o ≤ 85MHz	—	20		
		85 < f _o ≤ 100MHz	—	22		
		100 < f _o ≤ 125MHz	—	27		
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	1.8 ≤ f _o ≤ 40MHz	—	7	ns	
		40 < f _o ≤ 85MHz	—	4		
		85 < f _o ≤ 125MHz	—	3		
Low Level Output Voltage	V _{OL}	I _{oL} =4mA/ 8mA (40MHz < f _o)	—	10% V _{cc}	V	
High Level Output Voltage	V _{OH}	I _{oH} =-4mA/ -8mA (40MHz < f _o)	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 _{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 SIA-3000	1.8 ≤ f _o < 40MHz	—	8	ps
			40 ≤ f _o ≤ 100MHz	—	5	
			100 < f _o ≤ 125MHz	—	4	
Peak to Peak Jitter	J _{PK-PK}	Measured with Wavecrest SIA-3000	1.8 ≤ f _o < 40MHz	—	80	ps
			40 ≤ f _o < 100MHz	—	40	
			100 ≤ f _o ≤ 125MHz	—	30	

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.

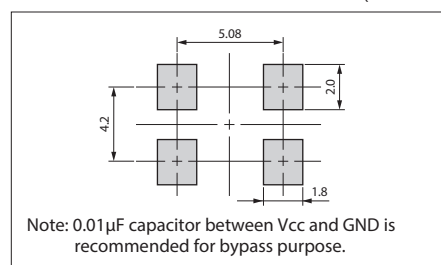
Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Standard Clock Oscillators](#) category:

Click to view products by [Kyocera AVX](#) manufacturer:

Other Similar products are found below :

[601252](#) [F335-25](#) [F535L-33.333](#) [F535L-50](#) [ECS-2018-160-BN-TR](#) [MXO45HS-2C-66.6666MHZ](#) [SiT1602BI-22-33E-50.000000E](#) [SiT8209AI-32-33E-125.000000](#) [SIT8918AA-11-33S-50.000000G](#) [SM4420TEV-40.0M-T1K](#) [F335-24](#) [F335-40](#) [F535L-10](#) [F535L-12](#) [F535L-16](#) [F535L-24](#) [F535L-27](#) [F535L-48](#) [PE7744DW-100.0M](#) [CSX-750FCC14745600T](#) [ASF1-3.686MHZ-N-K-S](#) [XO57CTECNA3M6864](#) [ECS-2100A-147.4](#)
[601251](#) [EP16E7E2H26.000MTR](#) [SIT8918AA-11-33S-16.000000G](#) [XO3003](#) [9120AC-2D2-33E212.500000](#) [9102AI-243N25E100.00000](#)
[8208AC-82-18E-25.00000](#) [ASDK2-32.768KHZ-LR-T3](#) [8008AI-72-XXE-24.545454E](#) [8004AC-13-33E-133.33000X](#) [AS-4.9152-16-SMD-TR](#)
[ASFL1-48.000MHZ-LC-T](#) [SIT8920AM-31-33E-25.0000](#) [DSC1028DI2-019.2000](#) [9121AC-2C3-25E100.00000](#) [9102AI-233N33E100.00000X](#)
[9102AI-233N25E200.00000](#) [9102AI-232H25S125.00000](#) [9102AI-133N25E200.00000](#) [9102AC-283N25E200.00000](#) [9001AC-33-33E1-30.000](#)
[3921AI-2CF-33NZ125.000000](#) [5730-1SF](#) [PXA000010](#) [8003AI-12-33S-40.00000Y](#) [1602BI-13-33S-19.200000E](#) [8208AI-2F-18E-25.000000X](#)