

Pb Free

RoHS Conforming

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage $V_{DD}=5.0V$
- $\pm 25ppm$ available

Table 1

Code	Stability (ppm)	T_{OPR} (°C)	Note
S	± 30	-10 to +70 (Standard)	With only certain frequencies
U	± 25	-10 to +70 (Standard)	With only certain frequencies
F	± 100	-40 to +85 (Extend)	With only certain frequencies
G	± 50	-40 to +85 (Extend)	With only certain frequencies

How to Order

K50-HC 0 - C S E 25.0000
 ① ② ③ ④ ⑤ ⑥

- ① Type(7x5 SMD, 5.0V)
- ② Frequency Stability Code(See Table1)
- ③ CMOS Output
- ④ Duty Ratio(S: 45% to 55% STD)
- ⑤ Enable/Disable Function(STD)
- ⑥ Oscillation Frequency(Ex.: 25.0000MHz)

Packaging(Tape & Reel 1Kpcs/reel)

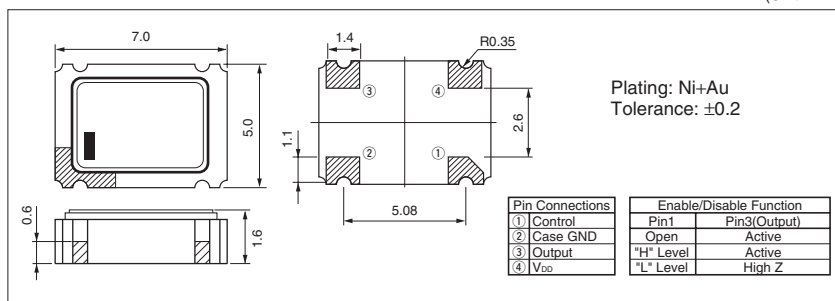
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	F_{OUT}		1.5	68	MHz
Frequency Stability	F_{SBY}	Overall conditions: initial tolerance, operating temperature range, rated power supply voltage change, load change, aging(1year @25°C), shock and vibration	-25	+25	ppm
			-30	+30	
			-50	+50	
Storage Temperature Range	T_{STG}		-55	+125	°C
Operating Temperature Range	T_{OPR}	Standard	-10	+70	
		Extend(option)	-40	+85	
Max. Supply Voltage	—		-0.5	7.0	Volt
Supply Voltage	V_{DD}	Stability: $\pm 50ppm, \pm 30ppm, \pm 100ppm$ (Ext Temp)	4.5	5.5	
		Stability: $\pm 25ppm, \pm 50ppm$ (Ext Temp)	4.75	5.25	
Current Consumption (Maximum Loaded)	I_{DD}	$1.5 < F_{OUT} \leq 20MHz$	—	25	mA
		$20 < F_{OUT} \leq 40MHz$	—	35	
		$40 < F_{OUT} \leq 68MHz$	—	50	
Disable Current	I_{DE}	@68.0000MHz	—	30	mA
Duty Ratio(Symmetry)	SYM	@50% V_{DD}	45	55	%
Rise/Fall Time (10% V_{DD} to 90% V_{DD} Maximum Loaded)	T_r/T_f	$8 < F_{OUT} \leq 26MHz$	—	10	nS
		$26 < F_{OUT} \leq 45MHz$	—	8	
		$45 < F_{OUT} \leq 68MHz$	—	5	
Output Voltage-"L"	V_{OL}	$I_{OL}=16mA$	—	10% V_{DD}	Volt
Output Voltage-"H"	V_{OH}	$I_{OH}=-16mA$	90% V_{DD}	—	
Output Load(CMOS)	CL	$8 < F_{OUT} \leq 50MHz$	—	50	pF
		$50 < F_{OUT} \leq 68MHz$	—	15	
Input Voltage Range	V_{IN}		0	V_{DD}	Volt
Input Voltage-"L"	V_{IL}		—	0.8	Volt
Input Voltage-"H"	V_{IH}		2.2	—	
Output Disable Time	—		—	100	nS
Output Enable Time	—		—	100	nS
Start-up Time	ST	@ Minimum operating Voltage to be 0sec.	—	10	mS

Note: Please contact us for inquiries about extended operating temperature range, available frequencies and other conditions. All electrical characteristics are defined at the maximum load and operating temperature range.

Dimensions

(Unit : mm)



Recommended Land Pattern

(Unit : mm)

