



Pb Free

RoHS Conforming

Features

- Miniature ceramic package
- Highly reliable with seam welding
- CMOS output
- Supply voltage $V_{DD}=2.5V$
- $\pm 25ppm$ available

Table 1

Stability Code	Stability (ppm)	T_{OPR} (°C)	Note
0	± 50	-10 to +70 (STD)	Standard specifications
S	± 30		With only certain frequencies
U	± 25		With only certain frequencies
F	± 100	-40 to +85 (Extend)	With only certain frequencies
G	± 50		With only certain frequencies

How to Order

K25-2C 0 - S E 25.0000
 ① ② ③ ④ ⑤

- ① Type (3.2x2.5 SMD, 2.5V)
- ② Frequency Stability Code (See Table 1)
- ③ Duty Ratio (S: 45% to 55% STD)
- ④ Enable/Disable Function (STD)
- ⑤ Oscillation Frequency (Ex.: 25.0000MHz)

Packaging (Tape & Reel 2,000pcs/reel)

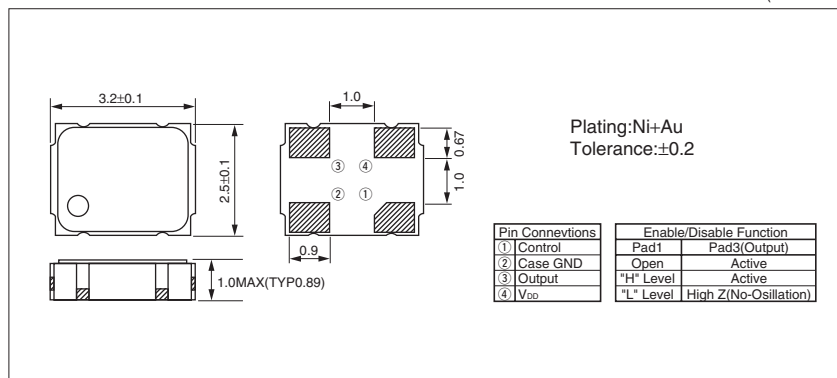
Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	F_{OUT}		1	50	MHz
Frequency Stability	F_{SBY}	Overall conditions: initial tolerance, operating temperature range, rated power supply voltage change, load change, aging (1 year @ 25°C), shock and vibration	-25 -30 -50	+25 +30 +50	ppm
Storage Temperature Range	T_{STG}		-55	+125	°C
Operating Temperature Range	T_{OPR}	Standard Extend (option)	-10 -40	+70 +85	
Max. Supply Voltage	—		-0.5	7.0	Volt
Supply Voltage	V_{DD}	Stability: $\pm 50ppm$, $\pm 30ppm$, $\pm 100ppm$ (Ext Temp) Stability: $\pm 25ppm$, $\pm 50ppm$ (Ext Temp)	2.38 2.43	2.62 2.57	
Current Consumption (Maximum Loaded)	I_{DD}	@ 50MHz	—	6	mA
Standby Current	I_{ST}	Standby Function	—	10	μA
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		—	5	nS
Output Voltage-"L"	V_{OL}	$I_{OL}=4mA$	—	10% V_{DD}	Volt
Output Voltage-"H"	V_{OH}	$I_{OH}=-4mA$	90% V_{DD}	—	
Output Load	CL	CMOS	—	15	pF
Input Voltage Range	V_{IN}		0	V_{DD}	Volt
Input Voltage-"L"	V_{IL}		—	30% V_{DD}	Volt
Input Voltage-"H"	V_{IH}		70% V_{DD}	—	
Output Disable Time	—		—	150	nS
Output Enable Time	—		—	5	mS
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)

