



Ph Free

RoHS Compliant

### Features

- Low voltage 1.8V
- Low jitter
- LV-CMOS output
- Operation at fundamental high frequency

Table 1

Freq. Tol. Code	Freq. Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note
1	$\pm 100$	0 to +70	Standard specifications

### How to Order

KC7050S 155.520 C 1 1 B 00  
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Type (7.0×5.0mm SMD)
- ② Output Frequency
- ③ Output Type (CMOS)
- ④ Supply Voltage (1.8V)
- ⑤ Frequency Tolerance (See Table 1)
- ⑥ Symmetry/ Enable Function (40/ 60%, Stand-by)
- ⑦ Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./reel)

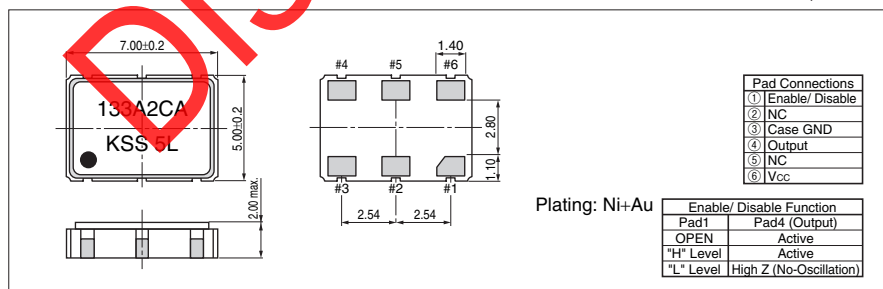
### Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	$f_o$		100	170	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 Op Temp.: 0 to +70°C	-100	+100	$\times 10^{-6}$
Storage Temperature Range	$T_{stg}$		-55	+125	°C
Operating Temperature Range	$T_{use}$	Standard Specifications	0	+70	°C
Max. Supply Voltage	—		-0.5	+5	V
Supply Voltage	$V_{cc}$	1.8V	1.62	1.98	V
Current Consumption (Standard Loaded)	$I_{cc}$		—	50	mA
Symmetry	SYM		40	60	%
Rise/ Fall Time (10% $V_{cc}$ to 90% $V_{cc}$ Standard Loaded)	$t_{r/f}$		—	2	nS
Low Level Output Voltage	$V_{OL}$		—	10% $V_{cc}$	V
High Level Output Voltage	$V_{OH}$		90% $V_{cc}$	—	V
Output Load (CMOS)	CL		—	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	$t_{dis}$		—	200	nS
Enable Time	$t_{ena}$		—	2	mS
Start-up Time	$t_{str}$	@ Minimum operation voltage to be 0 sec.	—	10	mS
Deterministic Jitter (DJ)	DJ		0.2 typ.		pS
1 Sigma Jitter	$J_{Sigma}$	Measured with Wavecrest DTS-2079 VISI 6.3.1	3 typ.		pS
Peak to Peak Jitter	$J_{PK-PK}$		20 typ.		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)

