

**Pb Free**

**RoHS Compliant**

**Features**

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

**Table 1**

Freq. Code	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 1000pcs./reel)

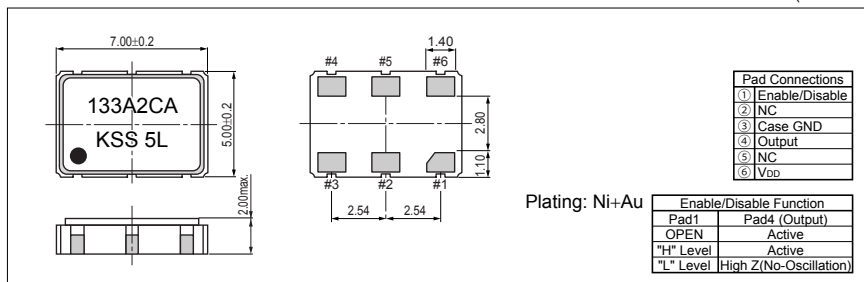
**Specifications**

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	Fo		100	170	MHz
Frequency Tolerance	F <sub>tol</sub>	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration	-100	+100	$\times 10^{-6}$
Storage Temperature Range	T <sub>stg</sub>		-55	+125	°C
Operating Temperature Range	T <sub>use</sub>	Standard Specifications	0	+70	°C
Max. Supply Voltage	—		-0.5	+5	V
Supply Voltage	V <sub>DD</sub>		1.62	1.98	V
Current Consumption (Standard Loaded)	I <sub>DD</sub>		—	50	mA
Symmetry	SYM		40	60	%
Rise/ Fall Time (10% V <sub>DD</sub> to 90% V <sub>DD</sub> Standard Loaded)	Tr/Tf		—	2	nS
Output Voltage-"L"	V <sub>OL</sub>		—	10% V <sub>DD</sub>	V
Output Voltage-"H"	V <sub>OH</sub>		90% V <sub>DD</sub>	—	V
Output Load (CMOS)	L <sub>CMOS</sub>		—	15	pF
Input Voltage Range	V <sub>IN</sub>		0	V <sub>DD</sub>	V
Input Voltage-"L"	V <sub>IL</sub>		—	30% V <sub>DD</sub>	V
Input Voltage-"H"	V <sub>IH</sub>		70% V <sub>DD</sub>	—	V
Disable Time	—		—	200	nS
Enable Time	—		—	2	mS
Start-up Time	ST	@ Minimum Operation Voltage to be 0 sec.	—	10	mS
Deterministic Jitter (DJ)	DJ	Measured with Wavecrest DTS-2079 VIS / 6.3.1	0.2 typ.		ps
1 Sigma Jitter	1 Sigma		3 typ.		ps
Peak to Peak Jitter	Pk-Pk		20 typ.		ps

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

**Dimensions**

(Unit : mm)



**Recommended Land Pattern**

(Unit : mm)

