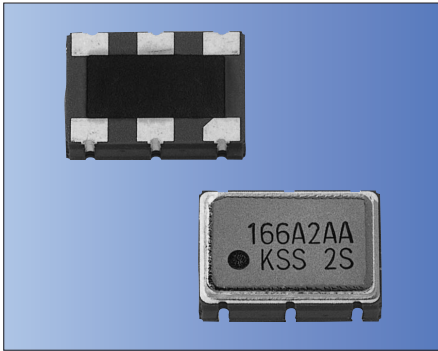


# SAW Clock Oscillators Surface Mount Type KC7050S-C3 Series (FSO-2D Series)



CMOS/ 3.3V/ 7.0×5.0mm



Ph Free

RoHS Compliant

## Features

- CMOS output 3.3V
- Low jitter
- Operation at fundamental high frequency

Table 1

Freq. Tol. 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 3 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 (3.3V)
- 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)

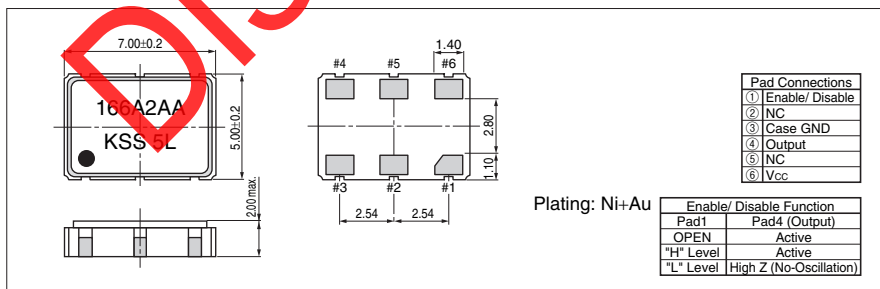
## Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range	fo		100	200	MHz
Frequency Tolerance	f <sub>tol</sub>	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 <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>cc</sub>	3.3V	3.14	3.46	V
Current Consumption (Standard Loaded)	I <sub>cc</sub>		—	60	mA
Symmetry	SYM		40	60	%
Rise/ Fall Time (10% V <sub>cc</sub> to 90% V <sub>cc</sub> Standard Loaded)	t <sub>r/f</sub>		—	2	nS
Low Level Output Voltage	V <sub>OL</sub>		—	10% V <sub>cc</sub>	V
High Level Output Voltage	V <sub>OH</sub>		90% V <sub>cc</sub>	—	V
Output Load (CMOS)	CL		—	15	pF
Input Voltage Range	V <sub>IN</sub>		0	V <sub>cc</sub>	V
Low Level Input Voltage	V <sub>IL</sub>		—	30% V <sub>cc</sub>	V
High Level Input Voltage	V <sub>IH</sub>		70% V <sub>cc</sub>	—	V
Disable Time	t <sub>dis</sub>		—	200	nS
Enable Time	t <sub>ena</sub>		—	2	mS
Start-up Time	t <sub>str</sub>	@ Minimum operation voltage to be 0 sec.	—	10	mS
Deterministic Jitter (DJ)	DJ		0.2 typ.		pS
1 Sigma Jitter	J <sub>Sigma</sub>	Measured with Wavecrest DTS-2079 VISI 6.3.1	3 typ.		pS
Peak to Peak Jitter	J <sub>PK-PK</sub>		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)

