

Pb Free

RoHS Compliant

Features

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

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 1000pcs./reel)

Table 1

Freq. Tol. Code	×10 ⁻⁶	Operating Temperature Range (°C)	Note
1	±100	0 to +70	Standard specifications

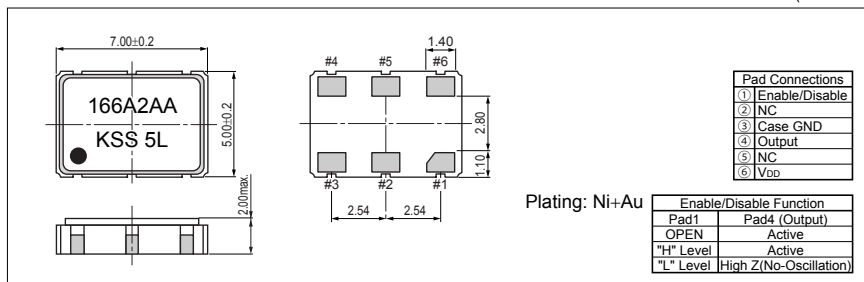
Specifications

Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range	Fo		100	200	MHz	
Frequency Tolerance	F _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1year @25°C), Shock and vibration	Op. Temp.: 0 to +70°C	-100	+100	×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 _{DD}		3.14	3.46	V	
Current Consumption (Standard Loaded)	I _{DD}		—	60	mA	
Symmetry	SYM		40	60	%	
Rise/ Fall Time (10% V _{DD} to 90% V _{DD} Standard Loaded)	Tr/Tf		—	2	nS	
Output Voltage-"L"	V _{OL}		—	10% V _{DD}	V	
Output Voltage-"H"	V _{OH}		90% V _{DD}	—	V	
Output Load (CMOS)	L _{CMOS}		—	15	pF	
Input Voltage Range	V _{IN}		0	V _{DD}	V	
Input Voltage-"L"	V _{IL}		—	30% V _{DD}	V	
Input Voltage-"H"	V _{IH}		70% V _{DD}	—	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)

