SAW Clock Oscillators Surface Mount Type KC7050T-P3 Series



LV-PECL/ 3.3V/ 7.0×5.0mm



Features

- Low jitter
- Complementary LV-PECL outputs
- Operation at fundamental high frequency
- ±50×10⁻⁶ Available

Table 1

Freq. Tol.		Operating Temperature	Note		
Code	× 10 ⁻⁶	Range (°C)	Note		
1	±100	0 to +70	Standard specifications		
0	± 50	0 10 +70	With only certain		
Α	±100	-5 to +85	frequencies		

How to Order

 $\frac{\mathsf{KC7050T}}{1} \ \frac{\mathsf{312.500}}{2} \ \frac{\mathsf{P}}{3} \ \frac{\mathsf{3}}{4} \ \frac{\mathsf{1}}{5} \ \frac{\mathsf{E}}{6} \ \frac{\mathsf{00}}{7}$

- ① Type (7.0×5.0mm SMD)
- 2 Output Frequency
- 3 Output Type (PECL)
- 4 Supply Voltage (3.3V)
- (5) Frequency Tolerance (See Table 1)
- 6 Symmetry/ INH Function (45/55%, Stand-by)
- (7) Customer Special Model Suffix (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

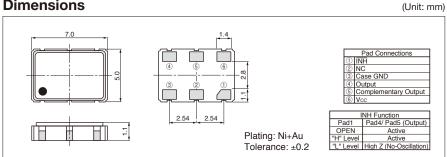
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Item	Symbol	Conditions	Min.	Max.	Units	
Output Frequency Range ^{Note1}	fo		125	700	MHz	
		Initial tolerance, Operating temperature range, Rated Op. Temp.: 0 to +70°C	-50	+50		
Frequency Tolerance	f_tol	power supply voltage change, Load change, Aging Op. Temp.: 0 to +70°C	-100	+100	×10 ⁻⁶	
		(1 year @25°C), Shock and vibration Op. Temp.: -5 to +85°C	-100	+100		
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	Vcc	3.3V	2.97	3.63	V	
Current Consumption	Icc		_	90	mA	
(Standard Loaded)	100			30		
Symmetry	SYM		45	55	%	
Rise/ Fall Time	tr/ tf		_	600	pS	
(20% to 80% Output Level Standard Loaded)						
Low Level Output Voltage ^{Note2}		0 to +85°C/ Typ. 1.600V		Vcc-1.620		
		-5 to 0°C/ Typ. 1.605V		Vcc-1.555	V	
High Level Output Voltage ^{Note2}		0 to +85°C/ Typ. 2.350V -5 to 0°C/ Typ. 2.295V		Vcc-0.880		
Output Load	RL	LV-PECL Output	Vcc-1.085 Vcc-0.900 50		ohm	
Input Voltage Range	Vin	LV 1 LOL Output	0	Vcc	V	
Low Level Input Voltage	VIL		_	30% Vcc	V	
High Level Input Voltage	VIH		70% Vcc	_	V	
Disable Time	t dis			200	nS	
Enable Time	t ena		_	10	mS	
Start-up Time	t_str	@Minimum operating voltage to be 0 sec.		10	mS	
Deterministic Jitter (DJ)	DJ			0.2 typ.		
1 Sigma Jitter	JSigma	Measured with Wavecrest DTS-2079 VISI 6.3.1		2 typ.		
Peak to Peak Jitter	JPK-PK			20 typ.		

Note: All electrical characteristics are defined at the maximum load and operating temperature range.

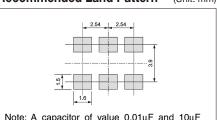
Note1: Please contact us for inquiry about operating temperature range, available frequencies and other conditions.

Note2: DC characteristic

Dimensions



Recommended Land Pattern (Unit: mm)



Note: A capacitor of value $0.01 \mu F$ and $10 \mu F$ between Vcc and GND is recommended.