



LV-PECL/ 3.3V/ 7.0×5.0mm



RoHS Compliant

Features

- High frequency to 800MHz
- Dual frequency selectable
- LV-PECL output
- Miniature ceramic package
- for WDM, Networking Applications

Table 1

Freq. Code	Tol. $\times 10^{-6}$	Operating Temperature Range (°C)	Note
G	±50	-40 to +85	Please contact us for available frequencies.

How to Order

KC7050G 622A644 P 3 G D 00
① ② ③ ④ ⑤ ⑥ ⑦

- ①Series
- ②Output Frequency/ Selection Frequency
- ③Output Type (LV-PECL)
- ④Supply Voltage (3.3V)
- ⑤Frequency Tolerance (See Table 1)
- ⑥Symmetry/ INH Function (45/ 55%, Disable)
- ⑦Individual Specification (STD Specification is "00".)

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions	Min.	Max.	Unit	
Output Frequency Range ^{Note1}	f1	Primary Output/ #2 "H"-Level or Open	10	800	MHz	
	f2	Secondary Output/ #2 "L"-Level	10	800	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 Temp.: -40 to +85°C	-50	+50	$\times 10^{-6}$	
Storage Temperature Range	T _{stg}		-55	+125	°C	
Operating Temperature Range	T _{use}		-40	+85	°C	
Max. Supply Voltage	—		-0.5	+4.2	V	
Supply Voltage	V _{cc}		+2.97	+3.63	V	
Current Consumption	I _{cc}		—	100	mA	
Symmetry	SYM	50ohm @crossing point	45	55	%	
Rise/ Fall Time (20% to 80% Output Level)	Tr/ Tf	50ohm	—	0.4	ns	
Low Level Output Voltage ^{Note2}	V _{OL}		—	V _{cc} -1.620	V	
High Level Output Voltage ^{Note2}	V _{OH}		V _{cc} -1.025	—	V	
Output Load	—	LV-PECL Output	50		ohm	
Low Level Input Voltage	V _{IL}		—	30% V _{cc}	V	
High Level Input Voltage	V _{IH}		70% V _{cc}	—	V	
Start-up Time	t _{str}	@Minimum operating voltage to be 0 sec.	—	10	ms	
Phase Jitter	J _{Phase}	@622.08MHz BW : 12kHz to 20MHz	Typ. 3.0		ps	
Phase Noise	—	@622.08MHz	@10Hz offset	Typ. -40		dBc/ Hz
			@100Hz offset	Typ. -70		
			@1kHz offset	Typ. -95		
			@10kHz offset	Typ. -105		
			@100kHz offset	Typ. -105		
			@1MHz offset	Typ. -125		
			@10MHz offset	Typ. -135		

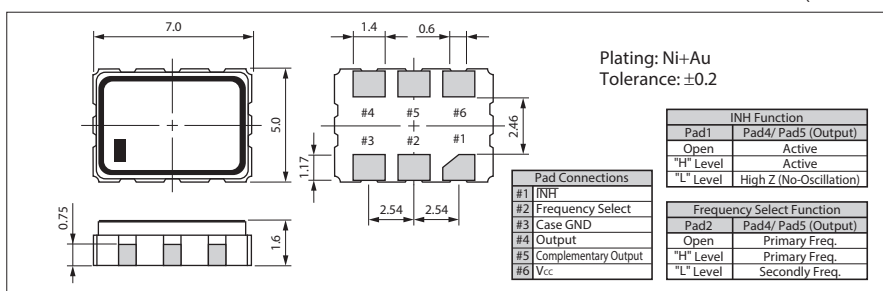
Note : All electrical characteristics are defined at the maximum load and operating temperature range.
Note1: Please contact us for inquiry about operating temperature range, available frequencies and other conditions.
Note2: DC characteristic

Crystal Oscillators



Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

