



LV-PECL/ 3.3V/ 7.0×5.0mm



RoHS Compliant

### Features

- High frequency to 800MHz
- Dual 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

KV7050G 622A644 P 3 G F 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 (45/ 55%)
- ⑦Individual Specification (STD Specification is "00")

Packaging (Tape & Reel 1000 pcs./ reel)

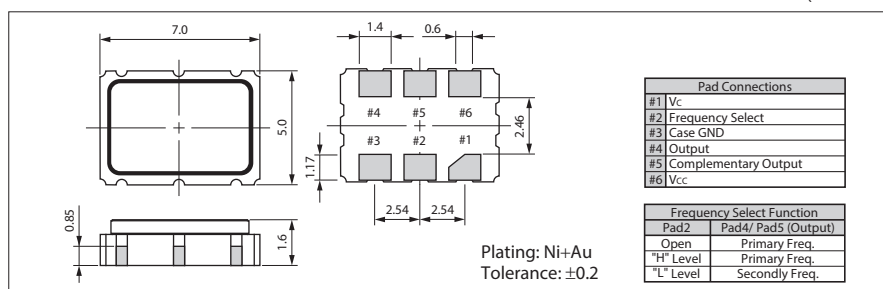
### Specifications

Item	Symbol	Conditions	Min.	Max.	Unit
Output Frequency Range <sup>Note1</sup>	f1	Primary Output/ #2 "H"-Level or Open	10	800	MHz
	f2	Secondary Output/ #2 "L"-Level	10	800	MHz
Frequency Tolerance @Vc = +1.65V	f <sub>tol</sub>	Initial tolerance, Operating temperature range, Rated power supply voltage change, Load change, Aging (1 year @25°C), Shock and vibration	-50	+50	$\times 10^{-6}$
Absolute Pull Range	APR		±100	—	$\times 10^{-6}$
Control Voltage	Vc		0	+3.3	V
Storage Temperature Range	T <sub>stg</sub>		-55	+125	°C
Operating Temperature Range	T <sub>use</sub>		-40	+85	°C
Max. Supply Voltage	—		-0.5	+4.2	V
Supply Voltage	Vcc		+2.97	+3.63	V
Linearity	—	Vc=0V to +3.3V	-10	+10	%
Current Consumption	Icc		—	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 <sup>Note2</sup>	VOL		—	Vcc-1.620	V
High Level Output Voltage <sup>Note2</sup>	VOH		Vcc-1.025	—	V
Output Load	—	LV-PECL Output	50		ohm
Low Level Input Voltage	VIL		—	30% Vcc	V
High Level Input Voltage	VIH		70% Vcc	—	V
Input Resistance	—		TYP	1	Mohm
Start-up Time	t <sub>str</sub>	@Minimum operating voltage to be 0 sec.	—	10	ms
Phase Jitter	J <sub>Phase</sub>	@622.08MHz	BW : 12kHz to 20MHz		ps
			Typ. 3.0		
			@10Hz offset		
			Typ. -40		
			@100Hz offset		
			Typ. -70		
			@1kHz offset		
			Typ. -95		
Phase Noise	—	@622.08MHz			dBc/ Hz
			@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

### Dimensions

(Unit: mm)



### Recommended Land Pattern

(Unit: mm)

