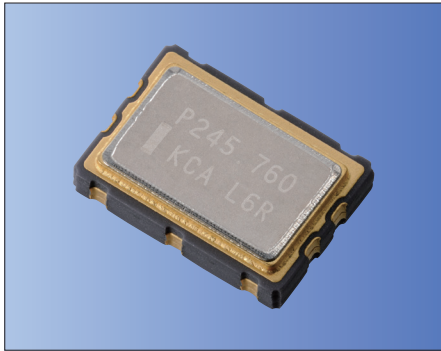




LV-PECL/ 3.3V/ 7.0×5.0mm



RoHS Compliant

**Features**

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

**Table 1**

Freq. Code	Tol. × 10 <sup>-6</sup>	Operating Temperature Range (°C)	Note
G	±50	-40 to +85	Please contact us for available frequencies.

**How to Order**

KC7050R 622.080 P 3 G D 00  
①                      ②                      ③ ④ ⑤ ⑥ ⑦

- ①Series
- ②Output 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 <sup>Note1</sup>	f <sub>o</sub>		10	800	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 Temp.: -40 to +85°C	-50	+50	×10 <sup>-6</sup>
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	V <sub>CC</sub>		+2.97	+3.63	V
Current Consumption	I <sub>CC</sub>		—	100	mA
Disable Current	I <sub>DE</sub>		—	30	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>	V <sub>OL</sub>		—	V <sub>CC</sub> -1.620	V
High Level Output Voltage <sup>Note2</sup>	V <sub>OH</sub>		V <sub>CC</sub> -1.025	—	V
Output Load	—	LV-PECL Output	50		ohm
Low Level Input Voltage <sup>Note2</sup>	V <sub>IL</sub>		—	30% V <sub>CC</sub>	V
High Level Input Voltage <sup>Note2</sup>	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 operating voltage to be 0 sec.	—	10	ms
Phase Jitter	J <sub>Phase</sub>	@622.08MHz	BW : 12kHz to 20MHz @10Hz offset @100Hz offset @1kHz offset @10kHz offset @100kHz offset @1MHz offset @10MHz offset		Typ. 3.0 Typ. -40 Typ. -70 Typ. -95 Typ. -105 Typ. -105 Typ. -125 Typ. -135
Phase Noise	—	@622.08MHz			dBc/ Hz

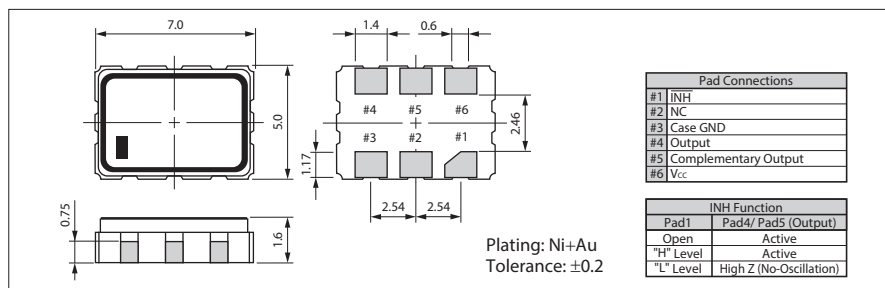
Note : All electrical characteristics are defined at the maximum load and operating temperature range.  
Note1: Please contact us for inquiry about operating temperature range, available frequencies and other conditions.  
Note2: DC characteristic

Crystal Oscillators



**Dimensions**

(Unit: mm)



**Recommended Land Pattern**

(Unit: mm)

