



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 ⁻⁶	Operating Temperature Range (°C)	Note
G	±50	-40 to +85	Please contact us for available frequencies.

How to Order

KV7050R 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)

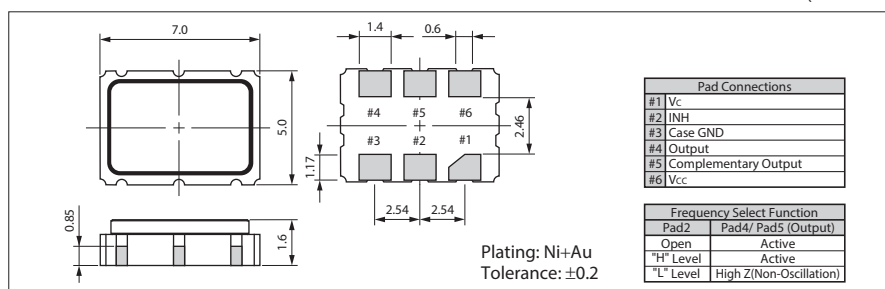
Specifications

Item	Symbol	Conditions	Min.	Max.	Unit
Output Frequency Range ^{Note1}	f _o		10	800	MHz
Frequency Tolerance @V _c =+1.65V	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	×10 ⁻⁶
Absolute Pull Range	APR		±100	—	×10 ⁻⁶
Control Voltage	V _c		0	+3.3	V
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
Linearity	—	V _c =0V to +3.3V	-10	+10	%
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
Input Resistance	—		150	—	k ohm
Disable Time	t _{dis}		—	200	ns
Enable Time	t _{ena}		—	2	ms
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
Phase Noise	—	@622.08MHz	@10Hz offset		Typ. -40
			@100Hz offset		Typ. -70
			@1kHz offset		Typ. -95
			@10kHz offset		Typ. -105
			@100kHz offset		Typ. -105
			@1MHz offset		Typ. -125
			@10MHz offset		Typ. -135
					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

Dimensions

(Unit: mm)



Recommended Land Pattern

(Unit: mm)

