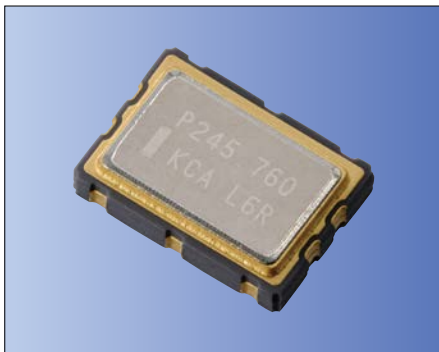


Voltage Controlled Crystal Oscillators (VCXO) Surface Mount Type KV7050R-P3 Series



LV-PECL/ 3.3V/ 7.0x5.0mm



RoHS Compliant

Features

- High frequency to 900MHz
- LV-PECL output
- Miniature ceramic package
- Highly reliable with seam welding
- for WDM, Networking Applications

Table 1

Freq. Tol. Code	× 10 ⁻⁶	Operating Temperature Range (°C)	Note
G	±50	-40 to +85	Standard specifications With only certain frequencies

How to Order

KV7050R 622.080 P 3 G D 00
① ② ③ ④ ⑤ ⑥ ⑦

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

Packaging (Tape & Reel 1000 pcs./ reel)

Specifications

Item	Symbol	Conditions	Min.	Max.	Units
Output Frequency Range ^{Note1}	f _o		10	900	MHz
Frequency Tolerance @V _c = +1.65V	f _{tol}	Initial tolerance, Operating temperature range, Rated power supply voltage change, Aging (1 year @25°C), Shock and vibration Op. 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} -1.62	V
High Level Output Voltage ^{Note2}	V _{OH}		V _{CC} -1.02	—	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
Start-up Time	t _{str}	@Minimum operating voltage to be 0 sec.	—	10	ms
Disable Time	t _{dis}		—	200	ns
Enable Time	t _{ena}		—	2	ms
Phase Jitter	J _{Phase}	12kHz to 20MHz @622.08MHz	TYP	0.8	ps
Phase Noise @622.08MHz	—	- 40 (@10Hz offset) - 70 (@100Hz offset) - 95 (@1kHz offset) - 105 (@10kHz offset) - 105 (@100kHz offset) - 125 (@1MHz offset) - 135 (@10MHz offset)			dBc/ Hz

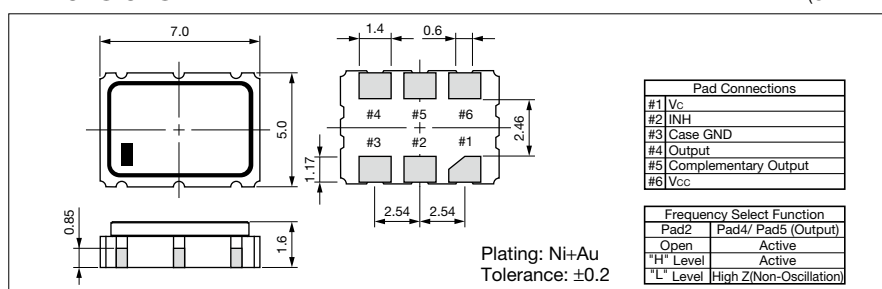
Note : All electrical characteristics are defined at the maximum load and operating temperature range.

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)

