



## Features

- Voltage Controlled Crystal Oscillator (VCXO).
- Fundamental /PLL solution.
- LVPECL output, output frequencies 50MHz to 700MHz.
- Wide pull range and good linearity.
- Excellent low phase noise and jitter.
- 3-state function available.
- Automatic mounting and reflow soldering.
- Applications: SDH, SONET, Ethernet, Base Stations, Femtocell, Satellite, etc.



## Electrical Specifications

Type	SMD 7050 VCXO		
Output Type	LVPECL		
Output Load	50Ω to VDD-2V	50Ω to VDD-2V	100Ω
Oscillation Mode	Fundamental	PLL	Multiplier
Frequency Range	50MHz~200MHz	60MHz~700MHz	200MHz~700MHz
Supply Voltage	3.3V		
Operating Temperature Range	-20~+70°C, -40~+85°C, or specify		
Storage Temperature Range	-55~+125°C		
Voltage Vol (Typ.) / Voh (Typ.)	VDD-1.62V /VDD-1.025V		
Rise(Tr) / Fall(Tf) Time(20%~80%)	1ns Max.		
Supply Current	80mA Max.	99mA Max.	80mA Max.
Symmetry	45~55%		
Start-up Time	10ms Max.		
Absolute Pulling Range (APR)*	±50ppm Min., or specify		
Nominal Control Voltage	0.5VDD		
Control Voltage Range	0~VDD		
Linearity	10% Max.		
Phase Jitter(12kHz~20MHz)	1ps Max.	1ps Max	±10ps Max

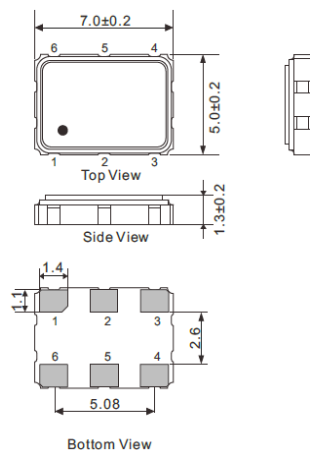
\* APR=(Pull Range)-(Frequency tolerance at 25°C, variation over temperature, supply voltage variation, and aging. )

## Ordering Information

KVP7050	050M	33	00	A		50
Product Code	Frequency Range 50MHz	Supply Voltage 33=3.3V	Frequency Stability 00=No Item	Operating Temperature		APR 50=±50ppm
				A:-20~+70°C	D:-40~+125°C	
				B:-10~+70°C	E:-10~+60°C	
				C:-40~+85°C	F:-30~+70°C	

## Dimension

Units:mm



**PAD FUNCTION:**  
1: ENABLE CONTROL or NC  
2: ENABLE CONTROL or NC  
3: GND  
4: OUT  
5: OUTN  
6: VDD

\* External high frequency power supply decoupling required.

