



SMD Voltage Controlled Crystal Oscillator

High Performance VCXO in a 7 x 5 mm Surface Mount package with selectable output frequency

The SMK7050 selectable OSC combines low RMS phase jitter and low power with the ability to select the output frequency from up to four factory-configured frequencies by controlling two Frequency Select (FS) pins (e.g. 122.88 or 153.6 MHz). This enables reductions in part count and built-in upgrade paths to increase design flexibility and reduce costs

Applications

Base stations
Consumer Communications
DSL/ADSL
Ethernet
Wi-Fi
WiMAX/W-LAN

Features

Selectable output frequencies (Up to 4)
Low power differential outputs
<1ps integrated RMS phase jitter (12 kHz to 20 MHz)
Wide frequency range
HCMOS, LVPECL, LVDS, or HCSL output options
Fast sample turnaround

Specification for electrical appliances

Parameter	3.3V		Unit	
	MIN	MAX		
Supply Voltage (VDD) 5%	3.135	4.465	V	
Standard Frequency	10MHz		MHz	
Frequency Range	8	1500	MHz	
Frequency Stability	±25 to ±50		ppm	
Output waveform	HCMOS			
Supply Current /For HCMOS	20		mA	
Time	5		ns	
Aging	±3		ppm	
Output Load	15		pf	
Duty Cycle @50%	45	55	%	
Supply voltage	3.63	3.3	2.97	V
Storage Temperature Range	-55	125	° C	
operating Temperature Range	-40	85	° C	

Specifications subject to change without notice

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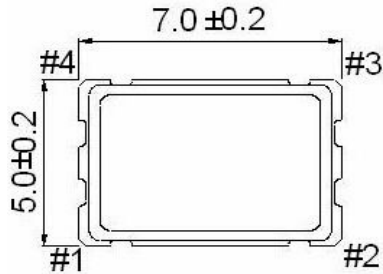
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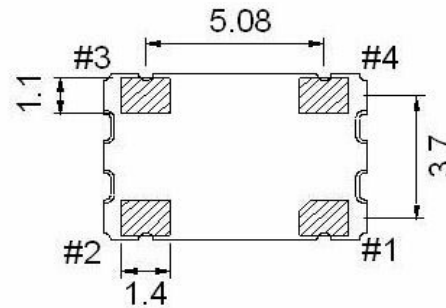


DIMENSION (mm)

[TOP VIEW]

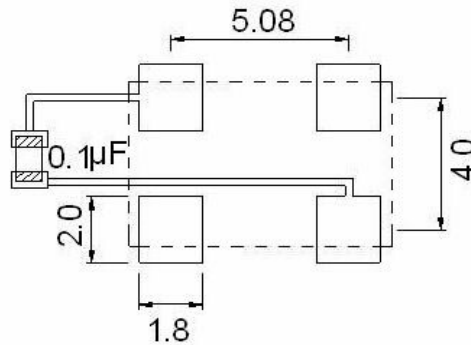
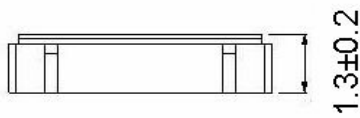


[BOTTOM VIEW]



Unit:mm

[SIDE VIEW]



Recommended soldering pattern

Pin	Function
#1	Tri-State
#2	GND
#3	Output
#4	VDD

