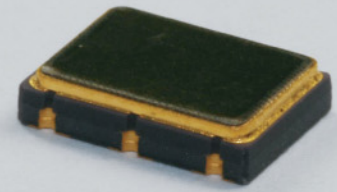


# VCXO

## SVH Series

- Ceramic SMD package
- Voltage Controlled Crystal Oscillator
- 5.0V & 3.3V supply voltage
- HCMOS/TTL output
- Stability to  $\pm 20$ ppm
- Tri-state function available
- Reflow soldering is possible
- Available on tape and reel
- Fund(no multi) or Multi available



SVH

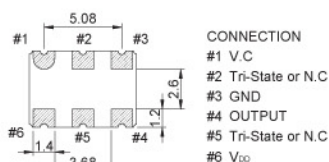
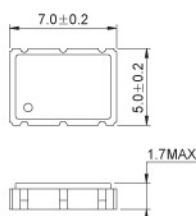
CERAMIC SMD TYPE

### ELECTRICAL SPECIFICATIONS

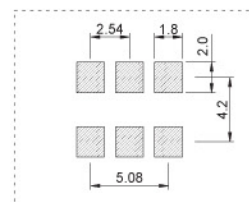
Frequency Range	1.000 to 77.760MHz(Fund)	77.761 to 300.000MHz(Multi)
Operating Temperature Range	0 to +70°C or -40 to +85°C	
Storage Temperature Range	-55 to +125°C	
Frequency Stability	Inclusive of Operating Temperature Range, Supply Voltage and Load	$\pm 50$ , $\pm 25$ , $\pm 20$ ppm
Supply Voltage(V <sub>DD</sub> )	5.0V <sub>DC</sub> $\pm 5\%$ , 3.3V <sub>DC</sub> $\pm 5\%$	
Input Current	1.000 to 20.000MHz 10mA max. 20.001 to 40.000MHz 20(5V), 15mA(3.3V) max. 40.001 to 77.760MHz 30(5V), 25mA(3.3V) max.	77.761 to 300.000MHz, 50mA max.
Frequency Deviation / Pin 1 Control Voltage	2.5 $\pm 2.0$ V <sub>DC</sub> (or 2.5V) 1.65 $\pm 1.35$ V <sub>DC</sub> (or $\pm 1.65$ V)	$\pm 80$ , $\pm 100$ (STD), $\pm 150$ ppm(optional) min. $\pm 80$ , $\pm 100$ (STD), $\pm 150$ ppm(optional) min.
Linearity	$\pm 20$ , $\pm 15$ , $\pm 10\%$	
Output Voltage Logic High(V <sub>OH</sub> )	HCMOS Load	90% of V <sub>DD</sub> min.
Output Voltage Logic Low(V <sub>OL</sub> )	HCMOS Load	10% of V <sub>DD</sub> max.
Rise / Fall Time	1.000 to 20.000MHz 10ns max. 20.001 to 40.000MHz 8ns max. 40.001 to 77.760MHz 5ns max.	77.761 to 300.000MHz, 10ns max.
Duty Cycle	50% of Waveform w/HCMOS Load	50 $\pm 10\%$ (STD) 50 $\pm 5\%$ (Optional)
Load Drive Capability	10 TTL Load or 15pF HCMOS Load	
Pin 2 Tri-state Input Voltage	No Connection	Enable Output
Pin 5 Tri-state Input Voltage	V <sub>IH</sub> : $\geq 0.7$ V <sub>DD</sub> V <sub>IH</sub> : $\leq 0.3$ V <sub>DD</sub>	Enable Output Disable Output : High Impedance
Aging (at 25°C)	$\pm 3$ ppm, $\pm 5$ ppm/year max.	
Start-up Time	10ms max.	
Period Jitter : pk-pk	100ps max.	
Period Jitter : One Sigma	25ps max.	

### MECHANICAL DIMENSIONS

SVH



CONNECTION  
 #1 V.C  
 #2 Tri-State or N.C  
 #3 GND  
 #4 OUTPUT  
 #5 Tri-State or N.C  
 #6 V<sub>DD</sub>



LAND PATTERN