MVH Series   VCXO

- Voltage Control Crystal Oscillators, DIP14
- HCMOS/TTL compatible
- Widely used for the telecommunications, Aerospace, defense and Military Industries.
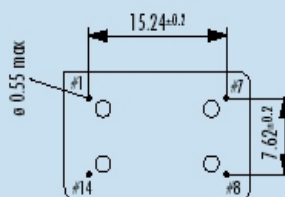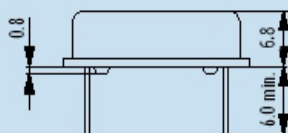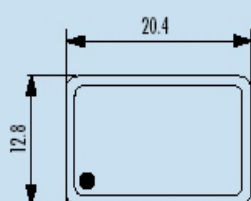
General Data

type	MVH	
frequency range	1.0000~200.0MHz	
frequency stability over all	± 5ppm ~ ± 25ppm	
current consumption	see table 1	
supply voltage V_{DC}	5.0 V (3.3V ± 5% optional)	
frequency pulling range	± 100ppm ~ ± 300ppm	
pulling control voltage	2.5 V ± 2.0 V	
pulling linearity	<10%	
temperature	operating	-40 °C ~ +85 °C
	storage	-55 °C ~ +125 °C
output	rise & fall time	6ns (max.)
	load max.	15pF / 30pF (< 40 MHz)
	current max.	16mA
	low level max.	0.1V_{DC}
	high level min.	0.9V_{DC}
start-up time max.	10ms	
symmetry at 0.5 x V_{DC}	45% ~ 55% typ.	

Table 1: Current Consumption max.

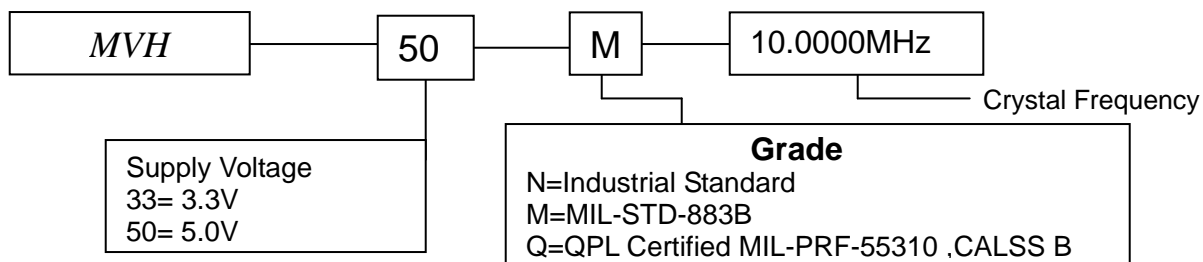| Current at 15pF load:		Current at 30pF load:	
1.8432 ~ 19.9 MHz	20 mA	1.8432 ~ 19.9 MHz	25 mA
20.0 ~ 39.9 MHz	30 mA	20.0 ~ 40.0 MHz	35 mA
40.0 ~ 65.9 MHz	40 mA		
66.0 ~ 79.9 MHz	50 mA		
80.0 ~ 125.0 MHz	60 mA		

Environmental And Mechanical	
Mechanical Shock	Per MIL-STD-883 ,Method 2002 ,Cond.B
Thermal Shock	Per MIL-STD-883 ,Method 1011 ,Cond.A
Vibration	Per MIL-STD-883 ,Method 2007 ,Cond.A
Seal (only crystal)	Per MIL-STD-883, Method 1014, Condition B & C
Solderability	Per MIL-STD-883 ,Method 2003 ,Cond.A

MVH

pin connection
1: control voltage
7: ground
8: output
#14: supply voltage

Part Numbering Guide

| MVH | 50 | M | 10.0000MHz |

Crystal Frequency

Supply Voltage
33= 3.3V
50= 5.0V

Grade
N=Industrial Standard
M=MIL-STD-883B
Q=QPL Certified MIL-PRF-55310 ,CALSS B