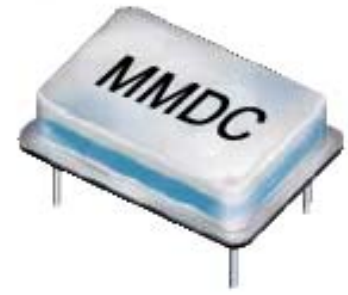


MVS Series

VCXO



- Voltage Control Crystal Oscillators, DIP14
- Sine Wave Output
- Widely used for the telecommunications, Aerospace, defense and Military Industries.

General Data

type	MVS	
frequency range	1.0000~200.0MHz	
frequency stability over all	± 5ppm ~ ± 25ppm	
current consumption	40mA (max.)	
supply voltage V _{DC}	5.0 V (3.3V±5% optional)	
frequency pulling range min.	± 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	signal	Sinewave
	load	Nominal 50Ω
	harmonic suppression	> -30dBc
	noise suppression	> -80dBc
start-up time max.	10ms	
Output level	>5dBm	

Table 1: PHASE NOISE

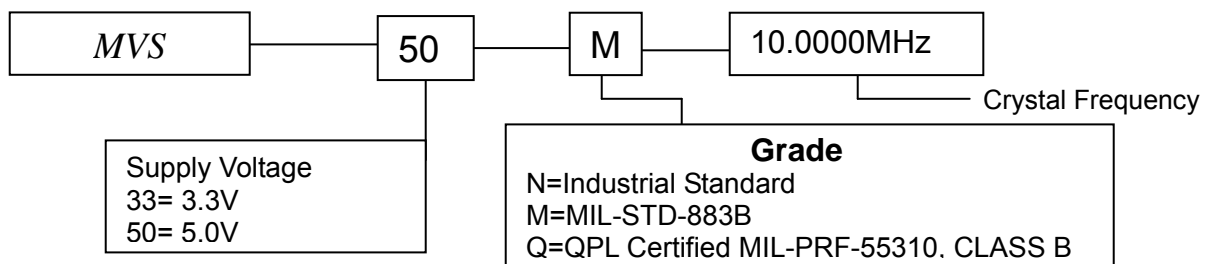
Parameter	Condition	Min	Typ	Max	Unit	Note
SSB Phase Noise	100Hz		-120		dBc/Hz	@100 MHz
	1KHz		-140			
	10KHz		-154			
	100KHz		-160			

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

MVS

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

Part Numbering Guide



MMDC-Tech Science Inc. www.mmdc-tech.net

6050 W Eastwood Ave, Chicago IL60630, USA

TEL: (312) 233-2157 FAX: (312) 233-2162