

# Surface Mount Oscillator, TCXO, TCVCXO

Metal Package, 9X11 mm

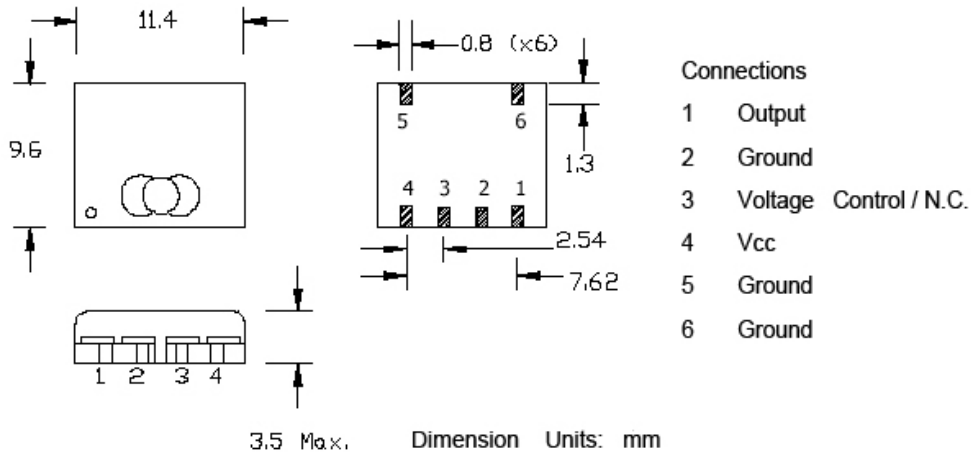


MH/MS/MHV/MSV Series\*

ELECTRICAL SPECIFICATIONS	PARAMETER	MH/MHV	MS/MSV
	Frequency	1.000 MHz to 40.000 MHz	10.000 MHz to 40.000 MHz
	Output Level	HC-MOS/TTL	Clipped Sine
	Level	'0'=0.1 Vcc Max., '1'=0.9 Vcc Min.	1.0V p-p Min.
	Duty Cycle	50% ± 10%	
	Rise/Fall Time	10 nS Max.	
	Output Load	15 pF, Fo<50 MHz=10 TTL, Fo>50 MHz=5LSTTL	20K Ohms/ 10 pF
	Frequency Stability	See Frequency Stability Table	
	Aging	± 1 ppm/Year Max.	
	Supply Voltage	See Supply Voltage Table, tolerance ± 5%	
	Current	40 mA Max.**	3 mA Max.
	Control Voltage ( MHV/ MSV )	1.65 VDC ± 1.5VDC, ± 5ppm Min. for Vcc=3.3 VDC, 2.5 VDC ± 2.0 VDC, ± 5 ppm Min. for Vcc=5.0 VDC	
	Slope	Positive	
	Temperature	See Operating Temperature Table	
Operating	See Operating Temperature Table		
Storage	-55°C to +125°C		

Environmental And Mechanical	Operating Temperature Range	-45°C to +105°C
	Shock	MIL-STD-883, Method 2002, Test Condition B
	Vibration	MIL-STD-883, Method 2007, Test Condition A
	Humidity	MIL-STD-883, Method 1014, Test Condition C

\* MH=HC-MOS TCXO, MS= Clipped Sine TCXO, MHV=HC-MOS TCVCXO, MSV=Clipped Sine TCVCXO



Part Number Guide		Sample Part Number: MHV-2P3-16.0000MHz		
Package and Output	Operating Temperature	Frequency Stability	Supply Voltage	Frequency
MH MS MHV MSV	7=0°C to +50°C	Q=± 1.0 ppm	5=5.0 VDC	16.0000MHz
	1=0°C to +70°C	P=± 2.0 ppm	3=3.3 VDC	
	3=-20°C to +70°C	O=± 2.5ppm		
	2=-40°C to +85°C	R=± 3.0ppm		
	5=-45°C to +105°C	J=± 5.0ppm		

NOTE: A 0.01 μ F bypass capacitor is recommended between Vcc(pin 4) and Gnd(pin 2) to minimize power supply noise.

\*\*Frequency, supply, and load related parameters. Specifications subject to change without notice