

# MVBH Series – 8 Pin DIP HCMOS VCXO



- Industry Standard Package
- +2.5VDC, +3.3VDC, or +5.0VDC Supply Voltage
- HCMOS Output
- RoHS Compliant Available



## ELECTRICAL SPECIFICATIONS:

|   |                                     |                    |                    |
|---|-------------------------------------|--------------------|--------------------|
| Supply Voltage (Vdd)  | +2.5VDC ±10%                        | +3.3VDC ±10%       | +5.0VDC ±10%       |
| Frequency Range   | 1.000MHZ TO 220.000MHZ              |                    |                    |
| Frequency Stability (Inclusive of Temp., Load, Voltage and Aging) | (See Part Number Guide for Options) |                    |                    |
| Operating Temp. Range   | (See Part Number Guide for Options) |                    |                    |
| Storage Temp. Range   | -55°C to +125°C                     |                    |                    |
| Supply Current  | 60mA max                            | 60mA max           | 85mA max           |
| Load  | 15pF                                | 30pF               | 30pF               |
| Output  | HCMOS                               |                    |                    |
| Logic "0"   | 10% Vdd max                         |                    |                    |
| Logic "1"   | 90% Vdd min                         |                    |                    |
| Symmetry (50% of waveform)  | 40%/60%                             |                    |                    |
| Rise / Fall Time (10% to 90%)                                     | 10nSec max                          |                    |                    |
| Start Time  | 10mSec max                          |                    |                    |
| Control Voltage   | 1.25 VDC ±1.00 VDC                  | 1.65 VDC ±1.50 VDC | 2.50 VDC ±2.00 VDC |
| Linearity   | (See Part Number Guide for Options) |                    |                    |
| Pullability   | (See Part Number Guide for Options) |                    |                    |

## ENVIRONMENTAL/MECHANICAL SPECIFICATIONS:

|                 |                                |
|-----------------|--------------------------------|
| Shock           | MIL-STD-883, Meth 2002, Cond B |
| Solderability   | MIL-STD-883, Meth 2003         |
| Vibration       | MIL-STD-883, Meth 2007, Cond A |
| Gross Leak Test | MIL-STD-883, Meth 1014, Cond C |
| Fine Leak Test  | MIL-STD-883, Meth 1014, Cond A |

## MARKING DETAIL:

Line 1 = MXXXXX

M = MMD COMPONENTS  
XXXXX = Frequency in MHZ

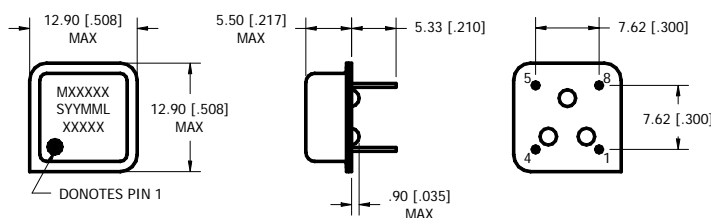
Line 2 = SYMMML

S = Internal Code  
YYMM = 4 Digit Date Code (Year / Month)  
L = Denotes RoHS Compliant

Line 3 = XXXXX

Internal use only  
May vary with lots

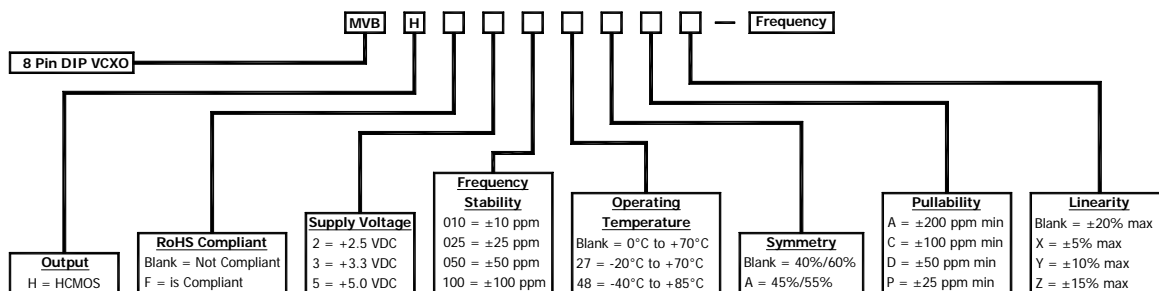
## MECHANICAL DIMENSIONS:



| PIN CONNECTIONS |                 |
|-----------------|-----------------|
| PIN 1           | CONTROL VOLTAGE |
| PIN 4           | CASE GROUND     |
| PIN 5           | OUTPUT          |
| PIN 8           | SUPPLY VOLTAGE  |

DIMENSIONS IN BRACKETS ARE IN INCHES  
EXTERNAL BYPASS CAPACITOR IS RECOMMENDED

## PART NUMBERING GUIDE:



Please Consult with MMD Sales Department for any other Parameters or Options

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