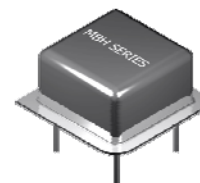


MBH Series Oscillator



- o Industry Standard Package
- o RoHS Compliant Available
- o Tri-state Function
- o Wide Frequency Range



Frequency Range	20.000kHz to 200.000MHz		
Frequency Stability (Inclusive of Temperature, Load, Voltage and Aging)	See Part Number Guide		
Operating Temperature	See Part Number Guide		
Storage Temperature	-55°C to +125°C		
Waveform	HCMOS		
Logic "0"	10% Vdd max		
Logic "1"	90% Vdd min		
Duty Cycle	See Part Number Guide		
Load	10 TTL Gates or 50pF max		
Start Up Time	10mSec max		
Rise/Fall Time	Up to 24.000MHz	10 nSec max	
	24.001MHz to 70.000MHz	6 nSec max	
	70.001MHz to 100.000MHz	4 nSec max	
	100.001MHz to 200.000MHz	2 nSec max	
Supply Voltage (VDC $\pm 10\%$)	+5.0	+3.3	+2.5/+1.8
20.000kHz to 24.000MHz	20mA	10mA	NA
24.001MHz to 50.000MHz	30mA	20mA	NA
50.001MHz to 70.000MHz	50mA	25mA	NA
70.001MHz to 200.000MHz	60mA	35mA	NA
24.000MHz to 30.000MHz	NA	NA	20mA
30.001MHz to 80.000MHz	NA	NA	40mA

Mechanical & Environmental Detail

Shock	MIL-STD-883, Method 2002 Cond B
Solderability	MIL-STD-883, Method 2003
Solvent Resistance	MIL-STD-202, Method 215
Vibration	MIL-STD-883, Method 2007, Cond A
Gross Leak Test	MIL-STD-883, Method 1014, Cond C
Fine Leak Test	MIL-STD-883, Method 1014, Cond A2
MSL	Level 1 per IPC/JEDEC J-STD 20

Marking Detail

Line 1 = MXXXXX		
M	=	MMD
XXXXX	=	Frequency in MHZ
Line 2 = SYWWL		
S	=	Internal Code
YYWW	=	4 Digit Date Code (Year / Week)
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Black dot to denote Pin 1		

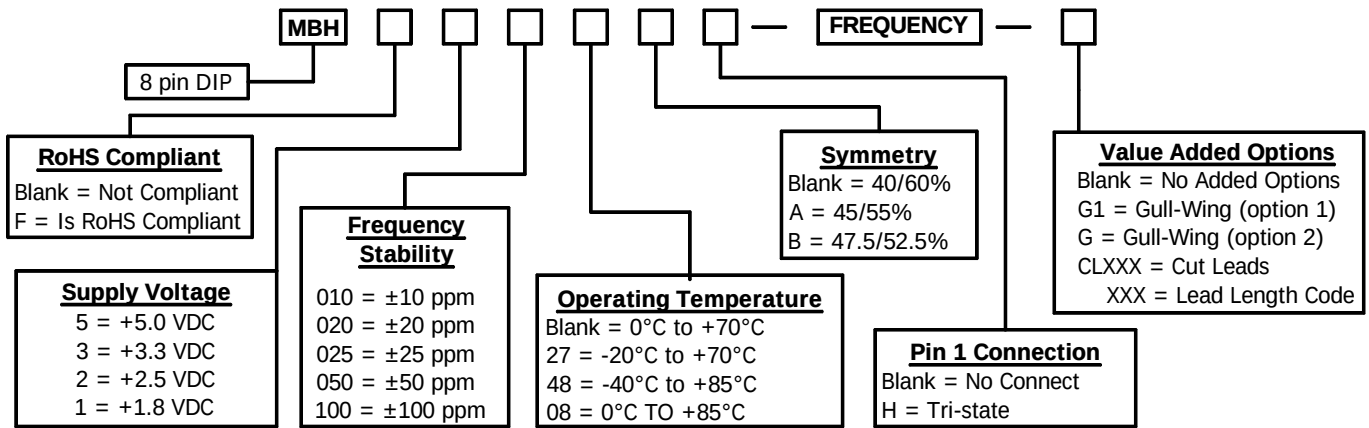


MMD Monitor/Quartztek
 30400 Esperanza, Rancho Santa Margarita, CA, 92688
 Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
 Sales@mmdcomp.com



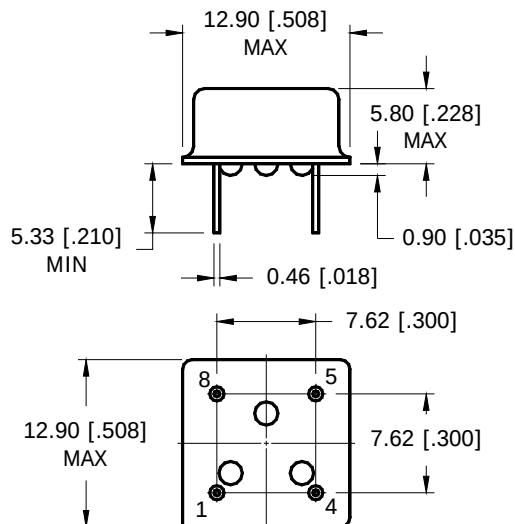
Revision: 02/07/11 J

Part Number Guide



PLEASE CONSULT WITH MMD SALES DEPARTMENT FOR ANY OTHER PARAMETERS OR OPTIONS

Mechanical Details



Pin Connections	
Pin 1	N/C or Tri-state
Pin 4	Case Ground
Pin 5	Output
Pin 8	Supply Voltage

Dimensions in Brackets are in Inches

External Bypass Capacitor Recommended



MMD Monitor/Quartztek

30400 Esperanza, Rancho Santa Margarita, CA, 92688
Phone: (949) 709-5075, Fax: (949) 709-3536, www.mmdcomp.com
Sales@mmdcomp.com

