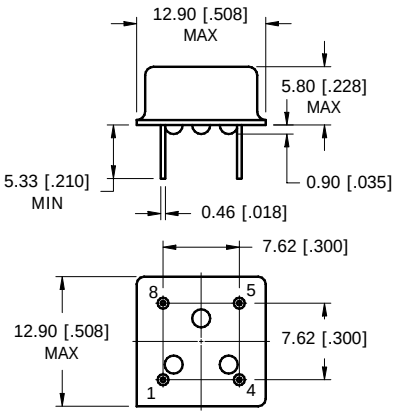
MBH Series

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

ELECTRICAL SPECIFICATIONS:

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 ±10%) – Supply Current (in mA max)			
	+5.0	+3.3	+2.5/+1.8
20.000kHz to 24.000MHz	20	10	NA
24.001MHz to 50.000MHz	30	20	NA
50.001MHz to 70.000MHz	50	25	NA
70.001MHz to 200.000MHz	60	35	NA
24.000MHz to 30.000MHz	NA	NA	20
30.001MHz to 80.000MHz	NA	NA	40

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

MARKING:

Line 1: MXX.XXX
XX.XXX = Frequency in MHz

Line 2: SYYMML
S = Internal Code
YYMM = Date Code (Year/Month)
L = Denotes RoHS Compliant

Line 3: XXXXX
Internal Manufacture Code

PART NUMBER GUIDE:

MBH □ □ □ □ □ □ □ — FREQUENCY — □

8 pin DIP

RoHS Compliant
Blank = Not Compliant
F = Is RoHS Compliant

Supply Voltage
5 = +5.0 VDC
3 = +3.3 VDC
2 = +2.5 VDC
1 = +1.8 VDC

Frequency Stability
010 = ±10 ppm
020 = ±20 ppm
025 = ±25 ppm
050 = ±50 ppm
100 = ±100 ppm
110 = ±10/10 ppm

Operating Temperature
Blank = 0°C to +70°C
27 = -20°C to +70°C
48 = -40°C to +85°C
08 = 0°C TO +85°C

Symmetry
Blank = 40/60%
A = 45/55%
B = 47.5/52.5%

Pin 1 Connection
Blank = No Connect
H = Tri-state

Value Added Options
Blank = No Added Options
G1 = Gull-Wing (option 1)
G = Gull-Wing (option 2)
CLXXX = Cut Leads
XXX = Lead Length Code

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

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