

# MAH Series 14 Pin DIP Oscillator



- Industry Standard Package
- RoHS Compliant Available
- HCMOS Output
- Wide Frequency Range



Frequency Range	5.000kHz 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 50% OF Waveform	See Part Number Guide		
Load	50pF max		
Start Up Time	10mSec max		
Rise/Fall Time	Up to 70.000MHZ	6 nSec max	
	Above 70.000MHZ	4 nSec max	
Standby Current Consumption	100µA		
Supply Voltage (VDC ±10%) – Supply Current (in mA max)	+5.0	+3.3	+2.5/+1.8
5.000kHz to 1.000MHz	35	10	NA
1.001MHz to 24.000MHz	45	25	NA
24.001MHz to 50.000MHz	55	35	NA
50.001MHz to 70.000MHz	60	35	NA
70.001MHz to 200.000MHz	85	40	NA
24.000MHz to 30.000MHz	NA	NA	20
30.001MHz to 80.000MHz	NA	NA	40

## Environmental & Mechanical 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 = SYYWWL		
S	=	Internal Code
YYWW	=	4 Numerical Digit Date Code (Year / Week)
L	=	Denotes RoHS Compliant
Line 3 = XXXXX		
Internal use only		
May vary with lots		
Pin 1 Designator		



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



In the event of conflict, the requirements of this specification shall govern.  
 Revisions only with customer approval

Revision: 04/08/11 G

