MAC Series 14 Pin DIP Oscillator

- **Industry Standard Package**
- **RoHS Compliant Available**
- **32.768KHz**
- **CMOS Output**

Frequency Range	32.768KHZ
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
Supply Voltage	5.0VDC ±10%
Supply Current	10mA max
Waveform	CMOS
Logic "0"	10% Vdd max
Logic "1"	90% Vdd min
Duty Cycle	See Part Number Guide
Load	10K Ohms // 15pF
Rise / Fall Time 10% to 90% of waveform	10nSec max
Tri-State Operation	Voh = 70% of Vdd min or No Connection to Enable Output Vol = 30% of Vdd max or grounded to Disable Output (High Impedance)

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
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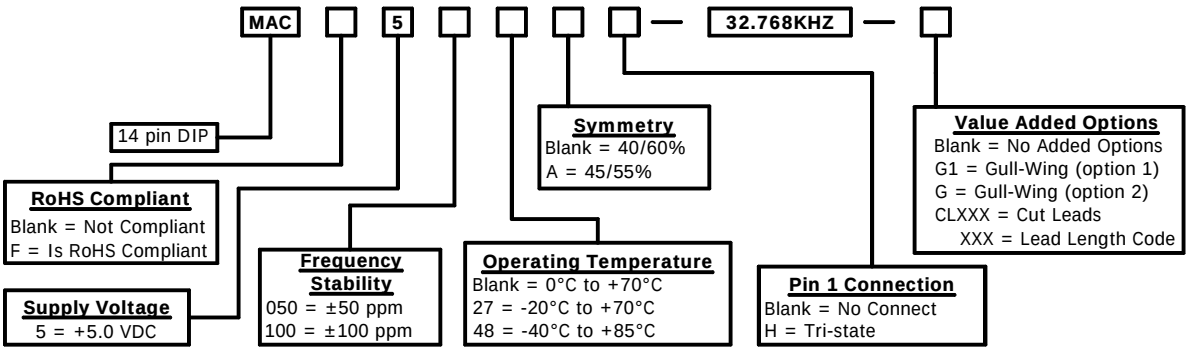
Sales@mmdcomp.com

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

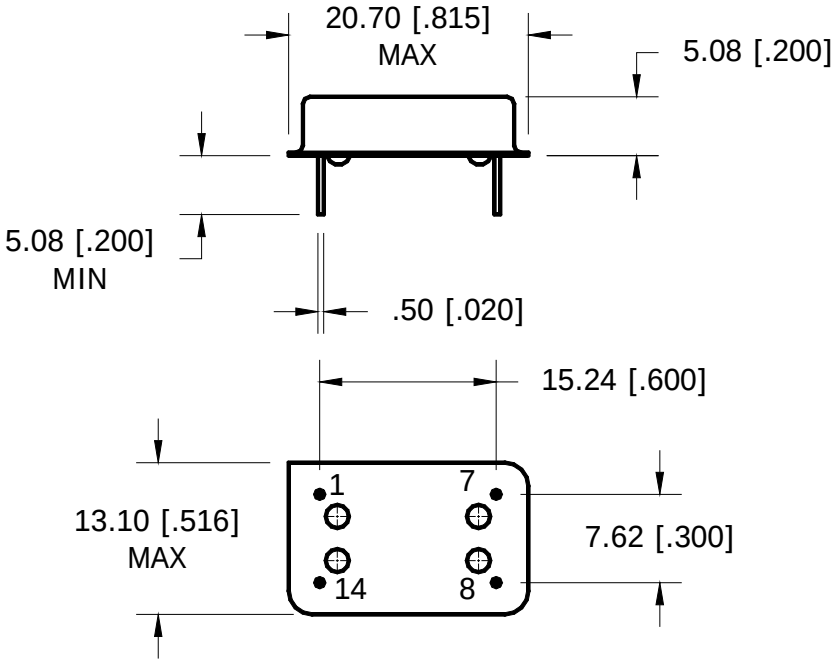
Revision:	11/18/10 E

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 7	CASE GROUND
PIN 8	OUTPUT
PIN 14	SUPPLY VOLTAGE

DIMENSIONS IN BRACKET ARE IN INCHES
EXTERNAL BYPASS CAPACITOR RECOMMENDED

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