

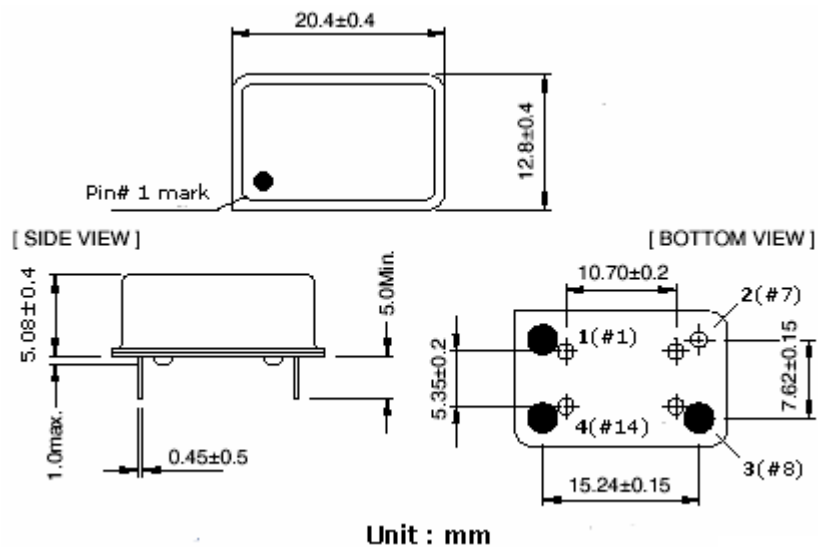
Features

- HCMOS/TTL, Low cost
- Metal 14pin DIP Package, Welding, 20.4x12.8x5.08mm
- 3.3V / 5.0V Operation
- RoHS Compliant

Specification

Parameter	Characteristic
Frequency Range	1.000MHz ~ 200.000MHz
Frequency Stability	+/- 100ppm std. (See Table 4) Inclusive of Operating Temperature
Operating Temperature Range	0 ~ +70°C std. (See Table 5)
Storage Temperature Range	-55 ~ +125°C
Input Voltage	5.0Vdc +/- 10% (See Table 3)
Input Current	80mA max (See Table A)
Output 0 Level (Vol)	10%Vdc max
Output 1 Level (Voh)	90%Vdc min
Symmetry (Duty Cycle)	40/60%@1/2Vdc std. (See Table 6)
Rise & Fall Time	10nS max (See Table B)
Start Up Time	10mS max
Output waveform vs. Load	HCMOS-TTL / 15pF or 10TTL
Aging(at 25°C)	+/- 5ppm / year max

Drawing



Pin Connection

- 1 (#1). E/D or N.C
- 2 (#7). Ground
- 3 (#8). Output
- 4 (#14). Vcc

Ordering Guide

Typical P/N : MDXH - F - 1.544M - 5 - 50 B S1 T -TU

1 2 3 4 5 6 7 8

1. Package MDXH-F = 20.4x12.8x5.08mm

(Metal 14pin DIP Oscillator, FULL size, HCMOS/TTL)

2. Frequency range : 1 to 200.000MHz

3. Input Voltage : 3 = 3.3V / 5 = 5.0V

4. Frequency Stability

00 : +/- 100ppm

50 : +/- 50ppm

25 : +/- 25ppm

5. Operating Temperature Range

A : 0~70°C

B : -20~70°C

C : -40~85°C

D : -10~70°C

* : The others

6. Symmetry (Duty Cycle)

S1 : 45/55% at 1/2Vdc

S2 : 40/60% at 1/2Vdc

7. Pin#1 Connection

T : Tri-state

Blank : No connection

8. Packing

BU : Bulk

TU : Tube

A. Input Current

- . 3.3V

1MHz ≤ F ≤ 20MHz : 17mA max

20MHz < F ≤ 40MHz : 25mA max

40MHz < F ≤ 80MHz : 35mA max

80MHz < F ≤ 125MHz : 45mA max

125MHz < F ≤ 200MHz : 65mA max

- . 5.0V

1MHz ≤ F ≤ 20MHz : 26mA max

20MHz < F ≤ 40MHz : 40mA max

40MHz < F ≤ 80MHz : 60mA max

80MHz < F ≤ 125MHz : 70mA max

125MHz < F ≤ 200MHz : 80mA max

B. Rise / Fall Time

1MHz ≤ F ≤ 20MHz : 10nS max

20MHz < F ≤ 40MHz : 6nS max

40MHz < F ≤ 80MHz : 6nS max

80MHz < F ≤ 125MHz : 4nS max

125MHz < F ≤ 200MHz : 2nS max