Metal 8pin DIP (Half size) Oscillator
■ Model No. MDXH-H

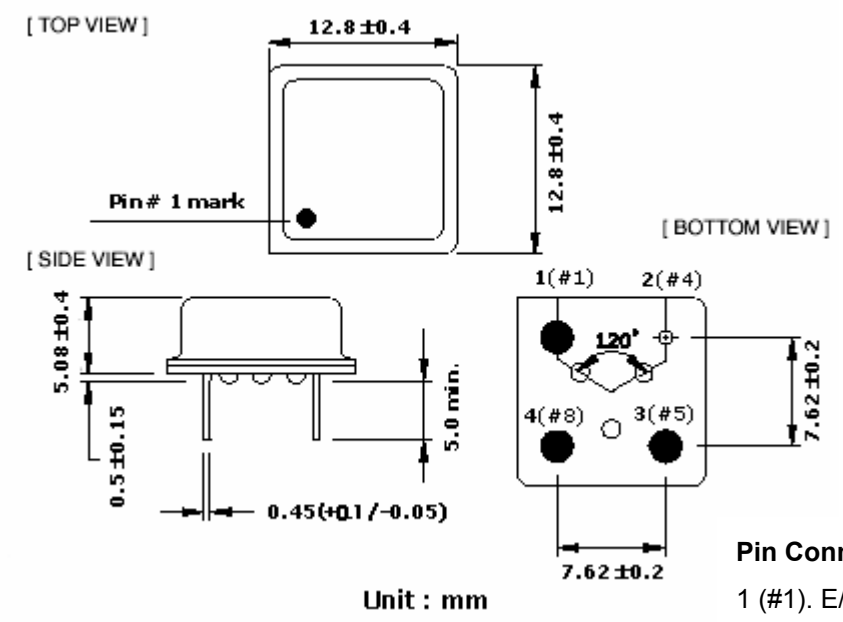
Features

- HCMOS/TTL, Low cost
- Metal 8pin DIP Package, Welding, 12.8x12.8x5.08mm
- 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℃ std. (See Table 5)
Storage Temperature Range	-55 ~ +125℃
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℃)	+/- 5ppm / year max

Drawing



Pin Connection

1 (#1). E/D or N.C

2 (#4). Ground

3 (#5). Output

4 (#8). Vcc

SAMJOON IND. Co., Ltd.

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■ Model No. MDXH-H

Ordering Guide

Typical P/N : MDXH - H - 1.544M - 5 - 50 B S1 T -TU
1 2 3 4 5 6 7 8

1. Package MDXH-H = 12.8x12.8x5.08mm
(Metal 8pin DIP Oscillator, HALF 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℃
B : -20~70℃
C : -40~85℃
D : -10~70℃
* : 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

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