

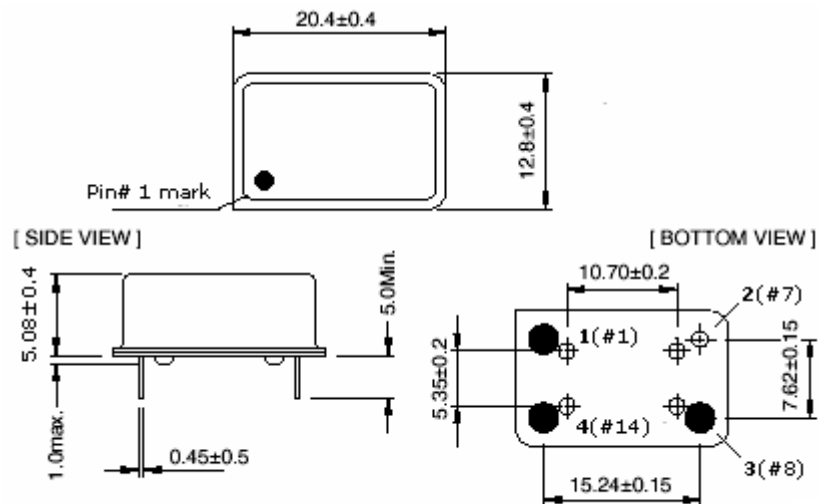
Features

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

Specification

Parameter	Characteristic
Frequency Range	1.000MHz ~ 200.0000MHz
Frequency Stability	+/- 100ppm std. (See Table 4) Inclusive of Operating Temperature
Operating Temperature Range	0 ~ +70°C std. (See Table 6)
Storage Temperature Range	-55 ~ +125°C
Input Voltage	3.3Vdc +/- 10% std. (See Table 3)
Control Voltage	1.65V +/- 1.35V std. (See Table 3)
Pulling Range	+/- 100ppm min std. (See Table 5)
Input Current	50mA 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 7)
Rise & Fall Time	10nS max (See Table B)
Linearity	+/- 10% std. (+/- 15%, +/- 20%)
Start Up Time	10mS max
Output waveform vs. Load	HCMOS-TTL / 15pF or 10TTL
Aging(at 25°C)	+/- 5ppm / year max

Drawing



Unit : mm

Pin Connection

1. Vcontrol
2. Ground
3. Output
4. Vcc

Ordering Guide

Typical P/N : MDVH-F - 35.328M - 52 - 50 E B S1 -TU

 1 2 3 4 5 6 7 8

- 1. Package** MDVH-F = 20.4x12.8x5.08mm
(Metal 14pin DIP VCXO, FULL size, HCMOS/TTL)
- 2. Frequency range :** 1 to 50MHz (Fundamental)
50.001 to 200MHz (Multi)
- 3. Input Voltage & Control Voltage :**
31 : 3.3V (Vcontrol : 1.65 +/- 1.35V)
32 : 3.3V (Vcontrol : 1.65 +/- 1.50V)
33 : 3.3V (Vcontrol : 1.65 +/- 1.65V)
51 : 5.0V (Vcontrol : 2.50 +/- 2.00V)
52 : 5.0V (Vcontrol : 2.50 +/- 2.50V)

- 4. Frequency Stability**
00 : +/- 100ppm
50 : +/- 50ppm
25 : +/- 25ppm

- 5. Pulling Range**
C : +/- 50ppm min
D : +/- 80ppm min
E : +/- 100ppm min
F : +/- 130ppm min
* : The others

- 6. Operating Temperature Range**
A : 0~70 °C
B : -20~70 °C
C : -40~85 °C
D : -10~70 °C
* : The other

- 7. Symmetry (Duty Cycle)**
S1 : 45/55% at 1/2Vdc
S2 : 40/60% at 1/2Vdc

- 8. Packing**
BU : Bulk
TU : Tube

A. Input Current

(unit : mA)	5.0V	3.3V
1MHz to 25MHz	20	15
25.001MHz to 50MHz	30	25
50.001MHz to 80MHz	40	35
80.001MHz to 200MHz	50	45

B. Rise / Fall Time

- 1MHz ≤ F ≤ 25MHz : 10nS max
25MHz < F ≤ 50MHz : 5nS max
50MHz < F ≤ 200MHz : 8nS max (Multi)