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**H** | Thru-Hole | SMD | TTL / CMOS | 1.8V | 2.5V | 3.3V | 5.0V | Min. 20KHz | Max. 160MHz

## Applications

- CPU , Graphics , Multimedia A / V clocks
- MPEG / DVD / HDTV clocks
- Laser engine pixel / set - top clocks
- OC-3 , OC-12 , OC-48 and OC-192 clocks
- SONET / SDH / ATM clocks
- Fast Ethernet and Gigabit Ethernet clocks
- NTSC / PAL encoder / decoder clocks
- PLL / synthesizer clocks
- Fibre channel and ADSL clocks

RoHS Compliance

## General Specifications [ TA = +25°C , $V_{DD}$= at specified voltage , Load : 15 pF ]

| Model | | " H " series | | | |
|---|---|---|---|---|---|
| Input Voltage ( $V_{DD}$) | | + 1.8V D.C.±5% | + 2.5V D.C.±5% | + 3.3 V D.C.±5% | + 5.0V D.C.±10% |
| | | code is " 18 " | code is " 25 " | code is " 3 " | code is " 5 " |
| Frequency Range | | 1.8 MHz ~ 60 MHz | 0.3 MHz ~ 125 MHz | 20KHz ~ 130 MHz | 20 KHz ~ 160 MHz |
| Output Wave Form | | CMOS | CMOS | T T L / CMOS | T T L / CMOS |
| Output Logic High " 1 " | T T L | | | 2.4 V ( min. ) | 2.4 V ( min. ) |
| | CMOS | 1.62 V ( min. ) | 2.25 V ( min. ) | 2.97 V ( min. ) | 4.5 V ( min. ) |
| Output Logic Low " 0 " | T T L | | | 0.4 V ( max. ) | 0.4 V ( max. ) |
| | CMOS | 0.18 V ( max. ) | 0.25 V ( max. ) | 0.33 V ( max. ) | 0.5 V ( max. ) |

| Frequency Stability [1] Codes | Frequency Stability over Operating Temperature Range | ± 25 ppm | ± 50 ppm | ± 100 ppm | If non-standard , please enter the desired stability after the " C " or " I " For example : " C20 " ±20 ppm over -10°C to +70°C ; " I20 " ± 20 ppm over -40°C to +85°C |
|---|---|---|---|---|---|
| | Commercial ( *-10°C to +70°C* ) | *A* | *B* | *C* | |
| | Industrial ( *-40°C to +85°C* ) | *D* | *E* | *F* | |

| | | |
|---|---|---|
| Output Load | T T L | 2 ~ 10 (LS) T T L gates |
| | CMOS | 15 pF typical; 30 pF load for frequencies up to 70 MHz ; Contact Mercury for 50 pF load |
| Rise Time ( Tr ) | T T L | 10 n sec.(max.) ; 3 n sec.(typical) . Measured between 0.4$V_{DC}$ ↔ 2.4$V_{DC}$ ( RL=390Ω ; CL = 15pF ) |
| Fall Time ( Tf ) | CMOS | 10 n sec.(max.) ; 3 n sec.(typical) . Measured between 10% to 90% wave form ( CL=15pF ) |
| Duty Cycle | T T L | 40% (min.) , 60%(max.) Measured at +1.4V |
| | CMOS | 40% (min.) , 60%(max.) Measured at 50% of wave form [ 50% ± 5% is also available , add " S " at the end of the part number |
| Start -Up Time (Ts) | | 10 m sec. (max.) ; 5 m sec. (typical) |
| Current Consumption | | 10 ~ 45 mA ( frequency dependent ) |
| Storage Temperature | | - 50°C to 100°C |
| Aging | | ±5 ppm per year (max.) |
| Tri-State Option. | | Output is high impedance when " 0 " is applied to pin 1 . Disable time is 150 n sec. max. Add " T " in part number for Tri-State option |

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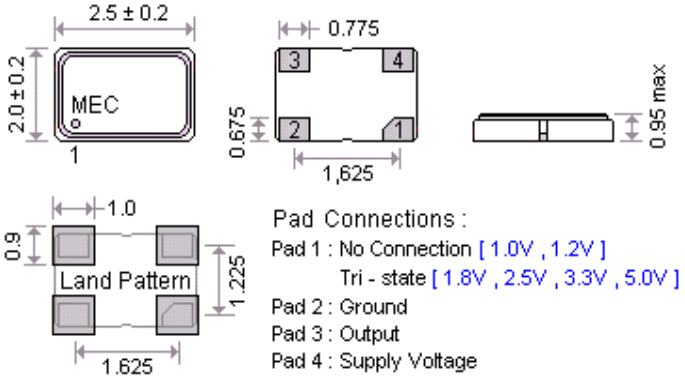
# Clock Oscillators [ T T L / CMOS ]

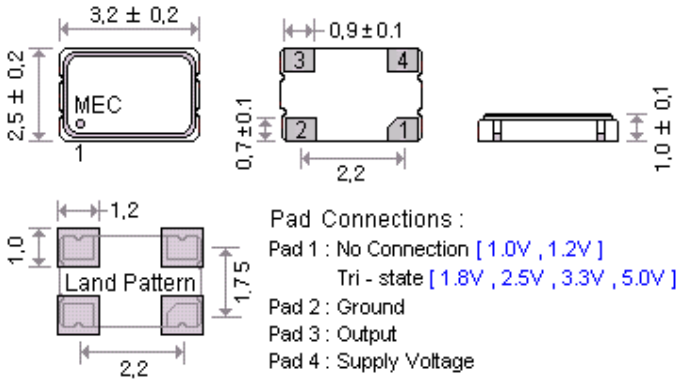
Outline Dimensions ( Unit : mm ) , Suggested pad Layout for SMDs [ Please refer to page 3 for product series selections . ]

## [ H22 ]



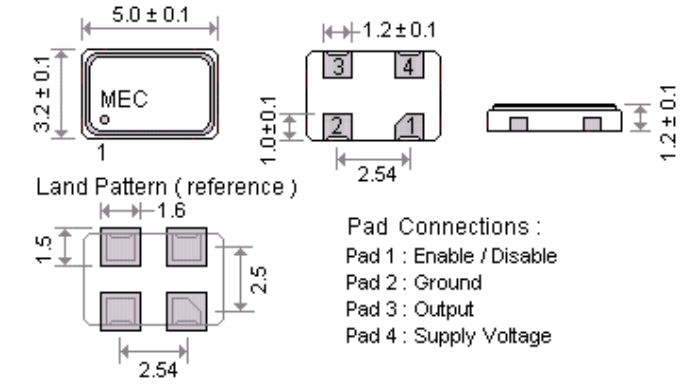

Pad Connections :
Pad 1 : No Connection [ 1.0V , 1.2V ]
Tri - state [ 1.8V , 2.5V , 3.3V , 5.0V ]
Pad 2 : Ground
Pad 3 : Output
Pad 4 : Supply Voltage

## [ H32 ]



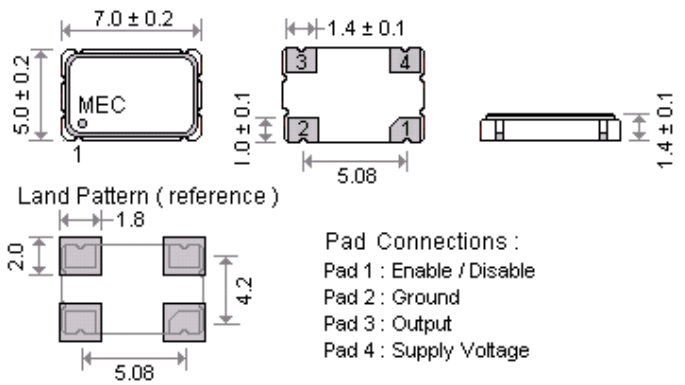

Pad Connections :
Pad 1 : No Connection [ 1.0V , 1.2V ]
Tri - state [ 1.8V , 2.5V , 3.3V , 5.0V ]
Pad 2 : Ground
Pad 3 : Output
Pad 4 : Supply Voltage

## [ H_53 ]



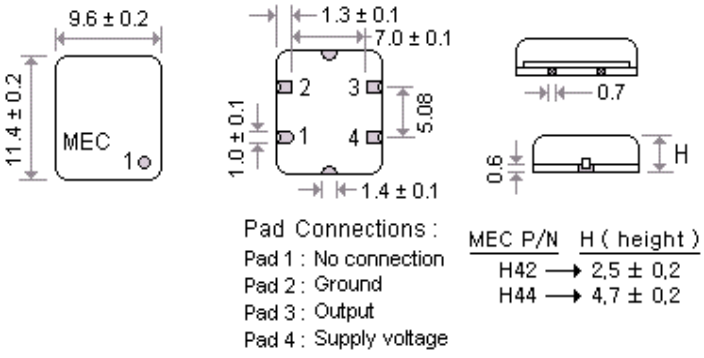

Pad Connections :
Pad 1 : Enable / Disable
Pad 2 : Ground
Pad 3 : Output
Pad 4 : Supply Voltage

## [ SWO ] , [ H_57 ]




Pad Connections :
Pad 1 : Enable / Disable
Pad 2 : Ground
Pad 3 : Output
Pad 4 : Supply Voltage

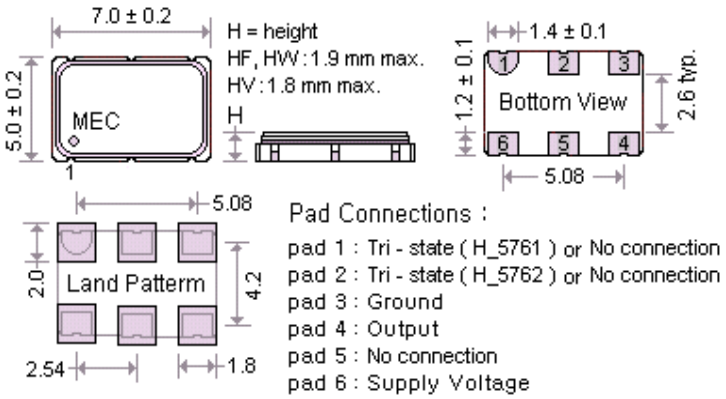
## [ H42 , HF42 , HW42 , HV42 ] , [ H44 , HF44 , HW44 , HV44 ]




Pad Connections :
Pad 1 : No connection
Pad 2 : Ground
Pad 3 : Output
Pad 4 : Supply voltage

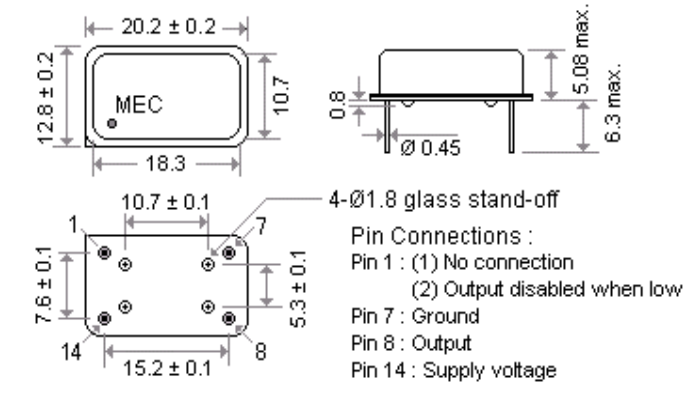
| MEC P/N | H ( height ) |
|---|---|
| H42 | 2,5 ± 0,2 |
| H44 | 4,7 ± 0,2 |

## [ HF5761 , HW5761 , HV5761 ] , [ HF5762 , HW5762 , HV5762 ]



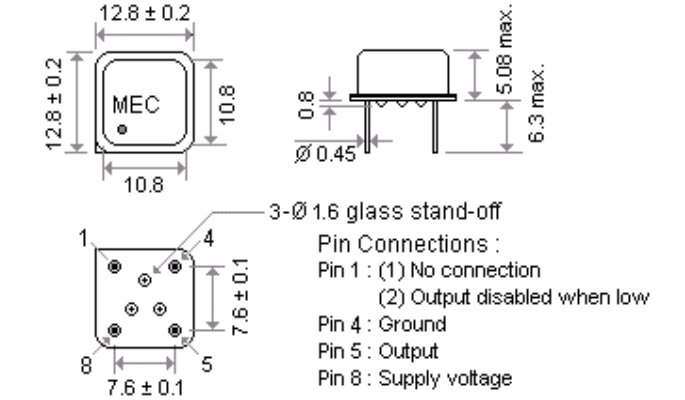

Pad Connections :
pad 1 : Tri - state ( H_5761 ) or No connection
pad 2 : Tri - state ( H_5762 ) or No connection
pad 3 : Ground
pad 4 : Output
pad 5 : No connection
pad 6 : Supply Voltage

## [ H14 , HF14 , HW14 , HV14 ]




Pin Connections :
Pin 1 : (1) No connection
(2) Output disabled when low
Pin 7 : Ground
Pin 8 : Output
Pin 14 : Supply voltage

## [ H8 , HF8 , HW8 , HV8 ]




Pin Connections :
Pin 1 : (1) No connection
(2) Output disabled when low
Pin 4 : Ground
Pin 5 : Output
Pin 8 : Supply voltage

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# Clock Oscillators [ T T L / CMOS ]

## Part Number Format and Examples

| | [ 1 ] | [ 2 ] | [ 3 ] | | [ 4 ] | [ 5 ] | | [ 6 ] |
|---|---|---|---|---|---|---|---|---|
| | Supply Voltage | Holder Type | G | – | Frequency Stability | T | – | Center Frequency |
| Examples (1) | 18 | SWO | | – | B | T | – | 25.000 |
| Examples (2) | 5 | H14 | G | – | C30 | | – | 10.000 |
| Examples (2) | 3 | HDW5761 | | – | E | | – | 156.250 |

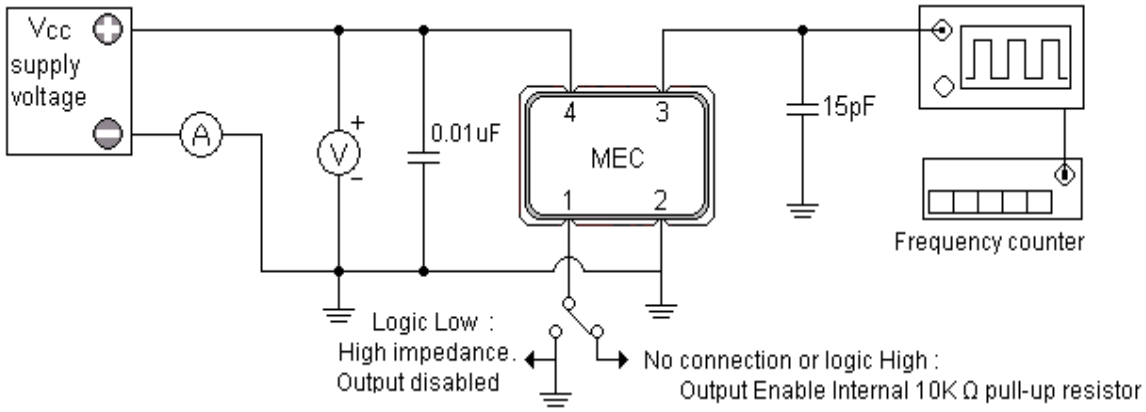
Ex (1) : 18SWO - BT - 25.000 [ 1.8V , SWO type , ±50ppm from -10°C to 70°C , Tri-state , 25.000MHz , ]

Ex (2) : 5H14G - C30 - 10.000 [ 5.0V , H14 type , RoHS , ±30ppm from -10°C to 70°C , 10.000MHz ]

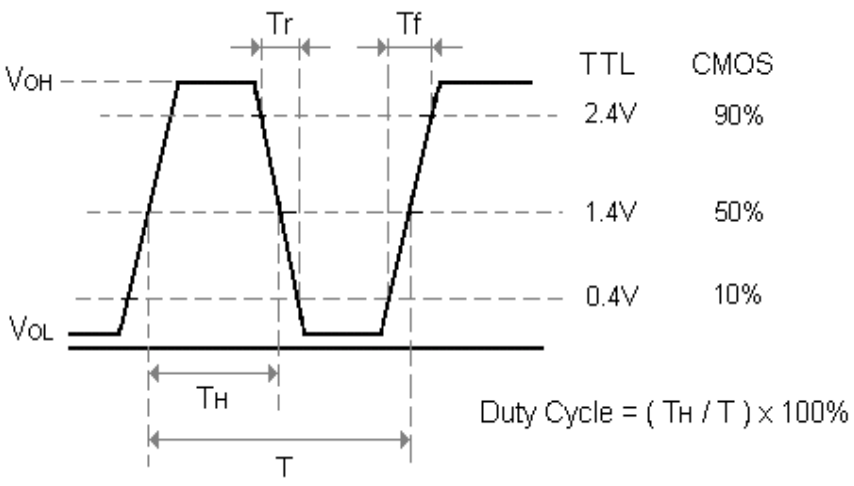
Ex (3) : 3HDW621G - E - 156.250 [ 3.3V , ( HDW62 type , Tri-state on pin 1 ) , RoHS , ±50ppm from -40°C to 85°C , 156.250MHz ]

| | | |
|---|---|---|
| [1] | Supply voltage , " 1 " for +1.0V ;" 12 " for +1.2V ; " 18 " for +1.8V ;" 25 " for +2.5V ; " 28 " for +2.8V ; " 3 " for +3.3V ; " 5 " for +5.0V | |
| [2] | Holder Type | |
| [3] | Please add "G" after the " type code " for RoHS compliant ( Does not apply to SWO , H_53 , H_32 , H22 , H_576_ , H_534 series ) | |
| [4] | -10°C ~ 70 °C | " A " ± 25ppm ; " B " ± 50ppm ; " C " ± 100ppm ; |
| | | If non-standard please enter the desired stability after " C " , for example " C15 " : represents ±15ppm over -10 to +70°C |
| | -40°C ~ 85 °C | " D " ± 25ppm ; " E " ± 50ppm ; " F " ± 100ppm ; |
| | | If non-standard please enter the desired stability after " I " , for example " I20 " : represents ±20ppm over -40 to +85°C |
| [5] | " T " for Tri-state , Leave this space blank if no connection on pin 1 or pad 1 . | |
| [6] | Frequency in MHz | |
| | Assigned by Mercury if customer spec , (1) : S ---- duty cycle ± 5% , ex : " - S " ; (2) : 50p ---- output load 50pF , ex : " - 50p " | |

## T T L / HCMOS Square Wave Test Circuit




## T T L / HCMOS Output Wave Form

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