# *Dip type LVDS output*
# *20.2 x 12.8 x 6.0 mm*


RoHS Compliance

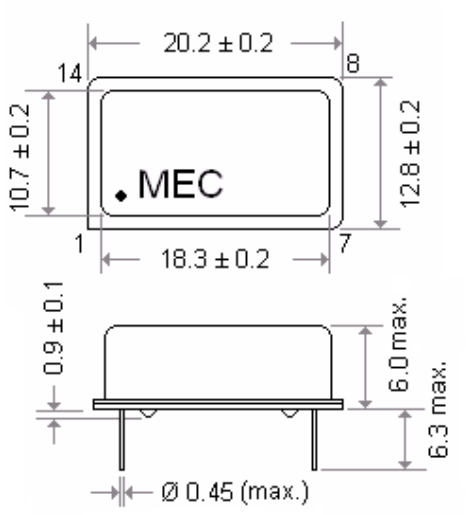
## Applications

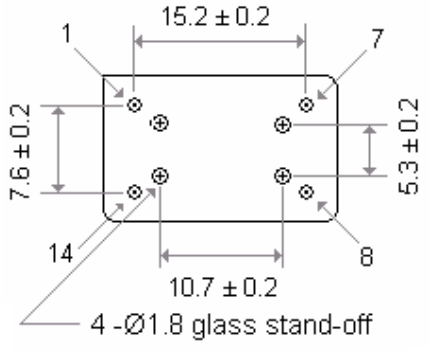
- For high frequency LVDS output clock oscillators .
- " HDW " use a high-Q fundamental crystal and a multiplier circuit for low cost applications.

## General Specifications

| Paramenters | | Electrical Spec. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Input Voltage ( $V_{DD}$) | | 3.3 V ± 5 % | | | | | | | |
| Frequency Range / Load | | 750 KHz ~ 800,0 MHz | | | | | | | |
| Output Wave Form | | LVDS output | | | | | | | |
| Output Logic High " 1 " | typical | 1.43 V ( RL = 100 Ω ) | | | | | | | |
| | max. | 1.60 V ( RL = 100 Ω ) | | | | | | | |
| Output Logic Low " 0 " | min. | 0.9 V ( RL = 100 Ω ) | | | | | | | |
| | typical | 1.1 V ( RL = 100 Ω ) | | | | | | | |
| Integrated Phase Noise ( 12 KHz to 20 MHz ) | | 2.6 ps ( typical ) ; 4.0 ps ( max.) | | | | | | | |
| Rise Time ( Tr ) / Fall Time ( Tf ) | | 0.6n sec.( typical ) ; 1.5 n sec. ( max.) | | | | | | | |
| Output Voltage Swing | | 350 mV min. ( $V_{DD}$ = +2.5V ) | | | | | | | |
| Duty Cycle | | 50% ± 10% [ 50% ± 5% is also available ] | | | | | | | |
| Load | | 50 Ω into Vcc - 2V or Thevenin equivalent | | | | | | | |
| Current Consumption ( 15 pF load ) | | < 24.0 MHz | | 24.1 ~ 96.0 MHz | | 96.1 ~ 800.0 MHz | | | |
| | | 25 mA ( max. ) | | 65 mA ( max. ) | | 100 mA ( max. ) | | | |
| Start - Up Time (Ts) | | 10 m sec.( typical ) | | | | | | | |
| Storage Temperature | | - 50°C to 100°C | | | | | | | |
| Aging | | ± 3 ppm per year (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* | | | | | |
| Phase Noise ( typical ) [ 156.250 MHz ] | | Offset | 10 Hz | 100 Hz | 1K Hz | 10 KHz | 100KHz | 1 MHz | 10 MHz |
| | | dBc / Hz | -60 | -90 | -115 | -125 | -119 | -120 | -140 |

## Outline Dimensions ( Unit : mm )




**Pin Connections :**

Pin 1 : Complimentary output
Pin 7 : Ground
Pin 8 : Output
Pin 14 : Supply

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