

## Dip type CMOS output 20.2 x 12.8 x 6.0 mm



### Features

- Tri-state function available.

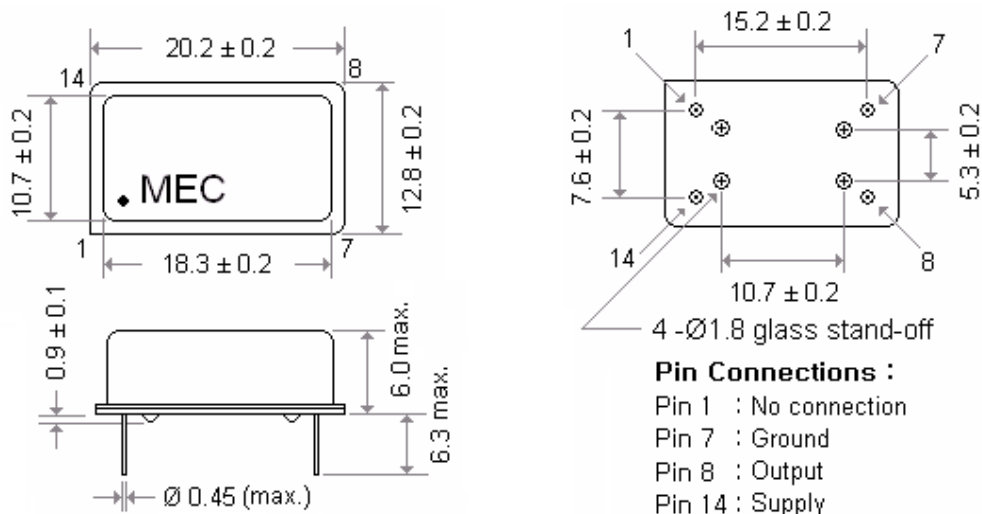
### Applications

- 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

### General Specifications

Parameters		Electrical Spec.			
Input Voltage ( V <sub>DD</sub> )		5.0 V ± 5 %			
Frequency Range		25.0 ~ 101.0 KHz	156.0 KHz ~ 160.0 MHz		
Output Wave Form		CMOS output			
Output Logic High " 1 "		4.5 V ( min. )			
Output Logic Low " 0 "		0.5 V ( max. )			
Output Load		15 pF typical [ 30 pF , 50 pF load available ]			
Rise Time ( Tr )		10 n sec.(max.)			
Fall Time ( Tf )		10 n sec.(max.)			
Duty Cycle		50% ± 10% [ 50% ± 5% is also available ]			
Current Consumption		25.0 ~ 100.0 KHz	1.5 ~ 50.0 KHz	50.1 ~ 160.0 MHz	
		10 mA max.	15 mA max.	35 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 <sup>(1)</sup> 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	

### Outline Dimensions ( Unit : mm )



Mercury [www.mercury-crystal.com](http://www.mercury-crystal.com)