

SMD CMOS output
7.0 x 5.0 x 1.8 mm



Features

- Ultra Small SMD seam sealed clock crystal oscillator units.
- Tri-state function available.

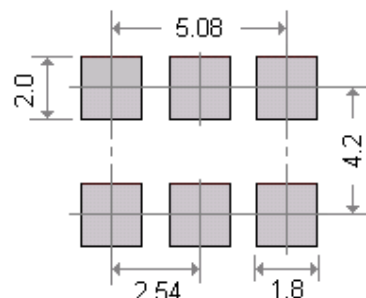
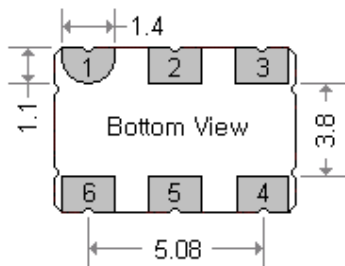
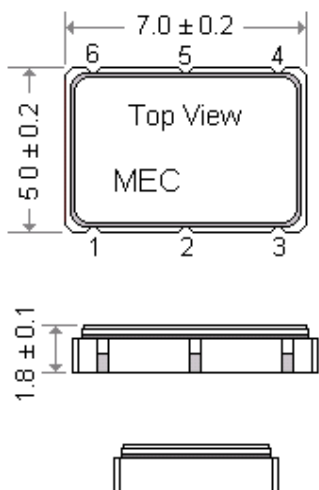
Applications

- 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 _{DD})		3.3 V ± 5 %							
Frequency Range / Load		125.1 ~ 200.0 MHz / [15pF load]							
Output Wave Form		CMOS output							
Output Logic High " 1 "		0.9 V (min.)							
Output Logic Low " 0 "		0.1 V (max.)							
Integrated Phase Noise (12 KHz to 20 MHz)		2.3 ps (typical) ; 4.0 ps (max.)							
Rise Time (Tr) / Fall Time (Tf)		0.7n sec.(typical) [0.3 V ↔ 3.0V, 15 pF load]							
Duty Cycle		50% ± 10% [50% ± 5% is also available]							
Current Consumption		45 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 "				
	Commercial (-10°C to +70°C)	A	B	C	For example :				
	Industrial (-40°C to +85°C)	D	E	F	" C20 " ±20 ppm over -10°C to +70°C ; " I20 " ± 20 ppm over -40°C to +85°C				
Phase Noise (typical) [156.250 MHz]		Offset dBc / Hz	10 Hz	100 Hz	1K Hz	10 KHz	100KHz	1 MHz	10 MHz
			-65	-95	-120	-125	-121	-120	-140

Outline Dimensions (Unit : mm)



- Pad Connections :
- Pad 1 : Tri - state
 - Pad 2 : No connection
 - Pad 3 : Ground
 - Pad 4 : Output
 - Pad 5 : Complimentary output
 - Pad 6 : Supply voltage

Mercury www.mercury-crystal.com