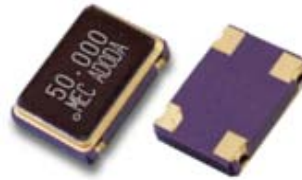


SMD CMOS output 7.0 x 5.0 x 1.4 mm



RoHS Compliance

Features

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

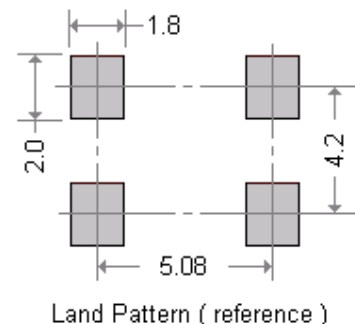
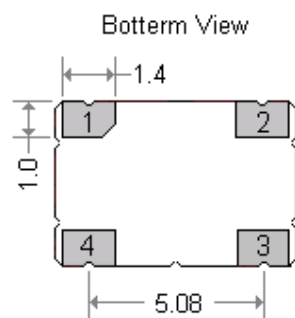
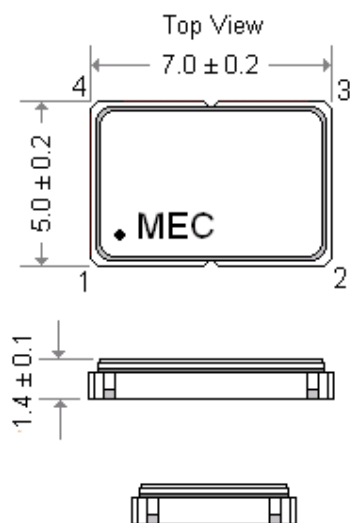
Applications

- 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})		5.0 V ± 10 %			
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 MHz	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 ⁽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	

Outline Dimensions (Unit : mm)



Pad Connections :
 Pad 1 : Enable / Disable
 (pad 1 is Tri-state as standard for all SWO series .)
 Pad 2 : Ground
 Pad 3 : Output
 Pad 4 : Supply

■

Mercury www.mercury-crystal.com