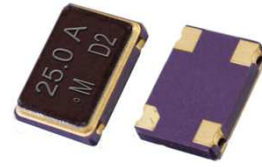


# SMD CMOS output 3.2 x 2.5 x 1.0 mm



## 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 <sub>DD</sub> )		1.0 V ± 5 %			
Frequency Range		312.5 KHz ~ 60.0 MHz			
Output Wave Form		CMOS output			
Output Logic High " 1 "		0.9 V ( min. )			
Output Logic Low " 0 "		0.1 V ( max. )			
Output Load		15 pF typical			
Rise Time ( Tr )		6 n sec.(max.)			
Fall Time ( Tf )		6 n sec.(max.)			
Duty Cycle		50% ± 10% [ 50% ± 5% is also available ]			
Current Consumption		312.0 KHz ~ 30.0 MHz	30.0 ~ 60.0 MHz		
		2 mA max.	4 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	

## General Specifications ( Unit : mm )

