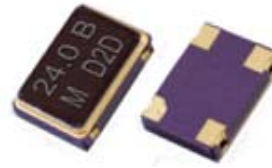


SMD CMOS output 2.5 x 2.0 x 0.95 mm



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})		1.8 V ± 5 %			
Frequency Range		156.0 KHz ~ 130.0 MHz			
Output Wave Form		CMOS output			
Output Logic High " 1 "		1.62 V (min.)			
Output Logic Low " 0 "		0.18 V (max.)			
Output Load		15 pF typical [30 pF , 50 pF load available]			
Rise Time (Tr)		10 n sec.(max.) ; 3 n sec.(typical)			
Fall Time (Tf)		10 n sec.(max.) ; 3 n sec.(typical)			
Duty Cycle		50% ± 10% [50% ± 5% is also available]			
Current Consumption	0.15 ~ 20.0 MHz	20.0 ~ 60.0 MHz	60.1 ~ 130.0 MHz		
	8 mA max.	12 mA max.	20 mA max.		
Start - Up Time (Ts)		5 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)

