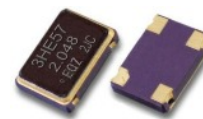


**FEATURES**

- Robust industry standard proven clock oscillator design
- Tri-state function available
- Supply Voltage 1.0, 1.2, 1.8, 2.5 or 3.3 Volts
- 15pF Load Capability
- Wide range of frequency options 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 / PA? Encoder / decoder clocks
- PLL / Synthesizer clocks
- Fibre Channel and ADSL clocks

**ELECTRICAL SPECIFICATION**

Model Number	XO91 Series					
Output Logic	CMOS					
Supply Voltage V <sub>DD</sub>	1.0V±5%	1.2V±5%	1.8 V ±5%	+2.5 V ±5%	+3.3 V ±5%	+5.0 V ±10%
Frequency Range	750kHz~ 50MHz	750kHz~ 50MHz	312kHz~ 160MHz	312kHz~ 160MHz	312kHz~ 160MHz	No longer available
Logic High "1" (90% of V <sub>DD</sub> min.)	0.9V	0.9V	1.62V	2.25V	2.97V	
Logic Low "0" (10% of V <sub>DD</sub> max)	0.1V	0.1V	0.18V	0.25V	0.33V	
Rise/Fall Time (Tr)	6ns max.	6ns max.	7 ns max.	7ns max.	10ns max.	
	Measured between 10% ~ 90% of wave form (CL = 15pF)					
Load	15pF					
Start-up Time	1.0 ~ 32.0MHz : 5ms (max) ; 32.0 ~ 160.0MHz : 10ms (max)					
Duty Cycle	Standard: 50%±10% ; Option 50% ±5% (Add "S" after the part number for this option)					
Enable/Disable	Enable/Disable function on Pad 1 is standard for XO91 series oscillators					

**OPERATING TEMPERATURE RANGE**

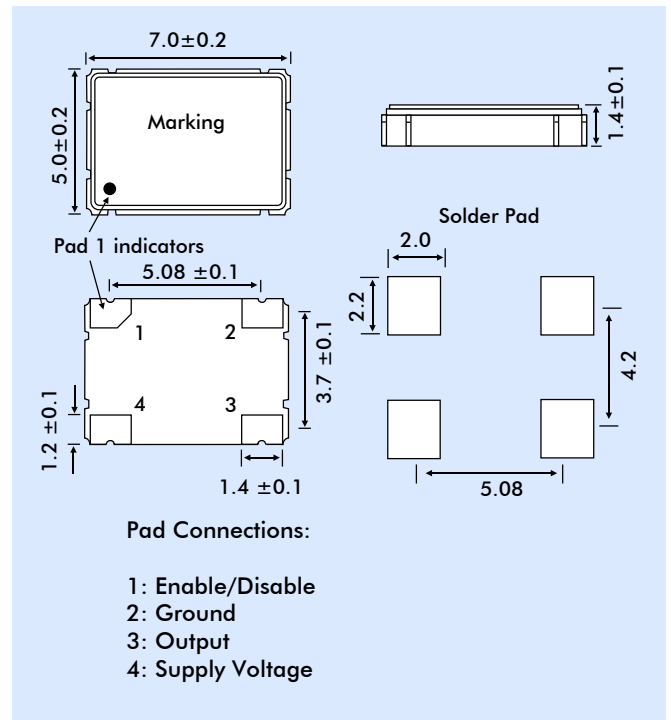
Frequency Stability Standard Values (If non-standard desired, ask for availability)	Frequency Stability over Operating Temperature Range			
	Commercial (-10° ~ +70°C)	±25ppm	±50ppm	±100ppm
	Industrial (-40° to +85°C)	±25ppm	±50ppm	±100ppm
	Extended (-50° ~ +105°C)	±30ppm	±50ppm	±100ppm

Storage Temperature	-55° to +125°C
Ageing at 25°C	±3ppm maximum for first year
Solder Profile	260°C max.

### CURRENT CONSUMPTION

Supply Voltage	Frequency Range	Current Consumption (mA max.)
1.0V	<25MHz	4
	25MHz ~ 50MHz	5
1.2V	<25MHz	4
	25MHz ~ 50MHz	5
1.8V	<25MHz	5
	1.5MHz ~ 50MHz	8
	50MHz ~ 100MHz	10
2.5V	100MHz ~ 160MHz	15
	<25MHz	5
	1.5MHz ~ 50MHz	10
3.3V	50MHz ~ 100MHz	15
	100MHz ~ 160MHz	20
	<25MHz	5
3.3V	1.5MHz ~ 50MHz	12
	50MHz ~ 100MHz	30
	100MHz ~ 160MHz	35
	<25MHz	5

### OUTLINE & DIMENSIONS



### ORDERING/PART NUMBER GENERATION

