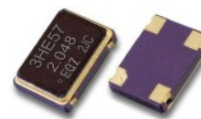


FEATURES

- Robust industry standard proven clock oscillator design
- Tri-state function available
- Supply Voltage 1.0, 1.2, 1.8, 2.5, 3.3 or 5.0 Volts
- 15pF Load Capability, 30pF or 50pF available on request
- 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 _{DD}	1.0V±5%	1.2V±5%	1.8 V ±5%	+2.5 V ±5%	+3.3 V ±5%	+5.0 V ±10%
Frequency Range	0.250MHz~50MHz	0.250MHz~50MHz	32.768kHz 0.312MHz~160MHz	32.768kHz 0.312MHz~160MHz	32.768kHz 312.5kHz~160MHz	0.375MHz~100MHz
Logic High "1" (90% of V _{DD} min.)	0.9V	0.9V	1.62V	2.25V	2.97V	4.5V
Logic Low "0" (10% of V _{DD} max)	0.1V	0.1V	0.18V	0.25V	0.33V	0.5V
Rise/Fall Time (Tr)	6ns max.	6ns max.	7 ns max.	7ns max.	10ns max.	10ns max.
	Measured between 10% ~ 90% of wave form (CL = 15pF)					
Load	15pF typical	15pF typical (30pF, 50pF load available for +3.3 and +5V V _{DD})				
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

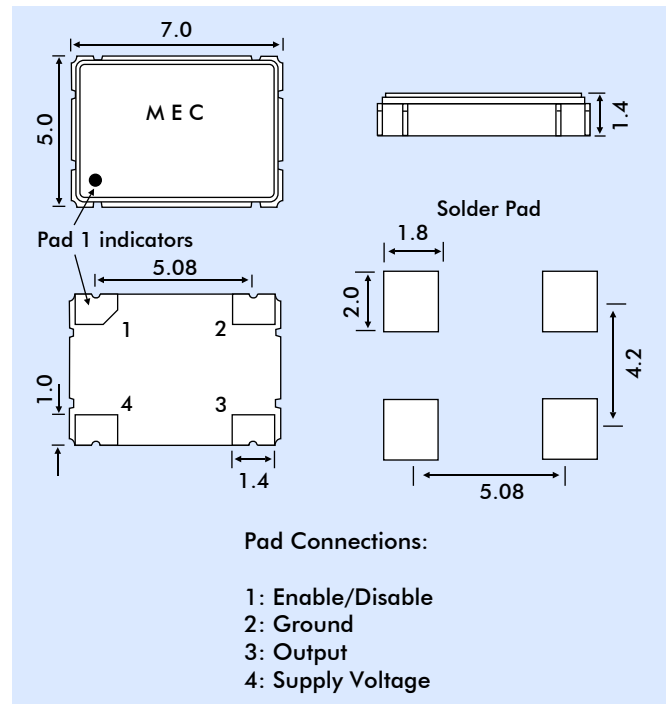
Frequency Stability Standard Values (If non-standard desired, ask for availability)	Frequency Stability over Operating Temperature Range			
	Commercial (-10° ~ +70°C)	±25ppm	±50ppm	±100ppm
	Industrial (-40° to +85°C)	±25ppm	±50ppm	±100ppm

Storage Temperature	-50° to +100°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	312.5kHz ~ 30MHz	2
	30MHz ~ 60MHz	4
1.2V	312kHz ~ 30MHz	4
	30MHz ~ 60MHz	12
1.8V	312.5kHz ~ 1.5MHz	8
	1.5MHz ~ 50MHz	12
	50MHz ~ 160MHz	20
2.5V	312.5kHz ~ 1.5MHz	10
	1.5MHz ~ 50MHz	15
	50MHz ~ 160MHz	30
3.3V	312.5kHz ~ 1.5MHz	10
	1.5MHz ~ 50MHz	15
	50MHz ~ 160MHz	35
5.0V	312.5kHz ~ 1.5MHz	10
	1.5MHz ~ 50MHz	15
	50MHz ~ 160MHz	35

OUTLINE & DIMENSIONS



ORDERING/PART NUMBER GENERATION

