EURO QUARTZ

XOV91 Series Oscillators

7 x 5mm High Frequency HCMOS Oscillator 125MHz to 200MHz

FEATURES

- Industry-standard 7.0 x 5.0mm package
- Frequency Range 125MHz to 200MHz
- High frequency range at low cost
- Supply voltage 3.3Volts
- Tristate function to conserve power

DESCRIPTION

XOV91 series oscillators are designed to provide a high quality HCMOS output at high frequencies from 125MHz to 200MHz. Phase and period jitter are kept within low limits. An enable/disable function is standard and the oscillator may also be specified with a power down function.

SPECIFICATION

Frequency Range:	125.01MHz to 200.0MHz
Output Logic:	HCMOS
Phase Jitter:	3.5ps typical
RMS Period Jitter:	4.0ps typical
Frequency Stability	
Commercial:	± 25 ppm to ± 100 ppm -10° to $+70^{\circ}$ C
Industrial:	±25ppm to ±100ppm -40° to +85°C
Input Voltage:	+3.3VDC ±5%
Output Voltage	
High '1':	+2.97V minimum
Low '0':	+0.33 V maximum
Rise/Fall Time:	0.25ns typical, 0.5ns max.
	(20%Vdd to 80%Vdd)
Current Consumption:	45mA typical (with 15pF load)
Load:	15pF
Start-up Time:	5ms typical, 10ms maximum
Duty Cycle:	50% ±5% (Measured at Vdd-1.3V)
Input Static	
Discharge Protection:	2kV maximum
Ageing:	±2pmm per year maximum

ABSOLUTE MAXIMUM RATINGS

Permanent damage may occur if units are operated beyond specified limits. Supply Voltage: +4.6 VDC max.

Supply Voltage: Input Voltage Vi: Input Voltage Vo: +4.6 VDC max. Vss-0.5 min., Vdd +0.5V max. Vss-0.5 min., Vdd +0.5V max.

PART NUMBER SCHEDULE







OUTLINE & DIMENSIONS



- 1 Not Connected
- 2 Enable/Disable (Tristate)
- 3 Ground
- 4 Output
- 5 Not connected
- 6 Supply Voltage

SOLDER TEMPERATURE PROFILE

Peak Temperature Topside of board to be 230° min., 248°C max.

