

TEMPERATURE-COMPENSATED OSCILLATOR

TXO91



Applications Features

- Communication Equipment
- HCMOS output with Tri-state function
- Ceramic package, Dimensions (2.5x2.0x0.9mm)
- High stability $\pm 2.5\text{ppm} / -40 \sim +105^\circ\text{C}$
- Low current consumption
- Low phase noise, Low jitter

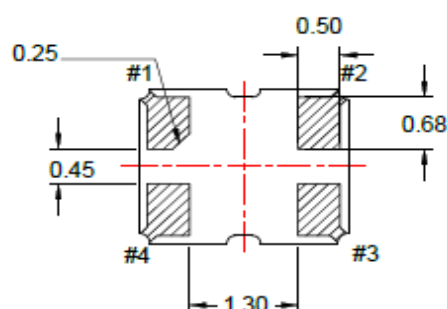
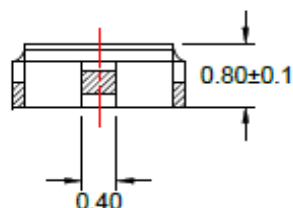
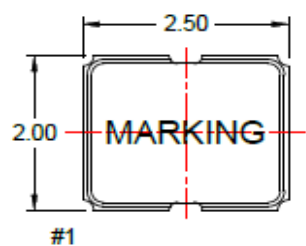
Specifications



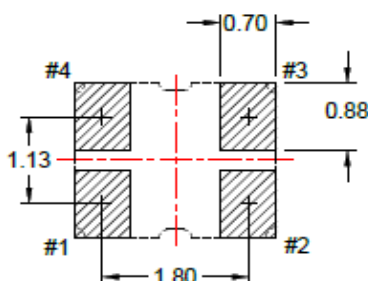
Model		TXO91
Nominal frequency		12.000~70.000MHz
Nominal frequency (MHz)		19.2, 26, 38.4, 52
Frequency stability	Tolerance at 25°C	$\pm 2.0 \times 10^{-6}$ (Sixty minutes after reflow)
	Temperature (Ref.to+25°C)	$\pm 2.5 \times 10^{-6} / -40 \sim +105^\circ\text{C}$
	Supply voltage change	$\pm 0.2 \times 10^{-6} / V_{dd} \pm 5\%$
	Load change	$\pm 0.2 \times 10^{-6} / Z_L \pm 10\%$
Aging (at 25°C)		$\pm 1.0 \times 10^{-6} / \text{year at } +25^\circ\text{C}$
Storage temperature range		-40~+125°C
Operating temperature range		-40~+85°C / -40~+105°C
Power supply voltage(Vdd)		+1.8V ~ +3.3V $\pm 5\%$
Current consumption		7mA max. / 10uA max (Standby)
Output level		CMOS
Load		15pF
Output Voltage Level		VOL:10%Vdd max. / VOH:90%Vdd min.
Rise & Fall time		5ns max. / 10%Vdd ~ 90%Vdd
Duty cycle		45%~55% at 1/2Vdd
Phase Noise		-142dBc typ. at 1kHz offset
Tri-state Function		#1: "H"→Output enable / #1: "L"→Output disable (Hi-Z)

Package quantity : 3,000pcs max./Reel

Outline and Dimensions [unit: mm]



LAND PATTERN (REFERENCE)



Terminal	Connection
#1	OE
#2	GND
#3	OUTPUT
#4	Vcc

OE Function	
OE	OUTPUT
High	Active
Low	Hi-Impedance