

TEMPERATURE-COMPENSATED OSCILLATOR TXO93



Applications Features

- Communication Equipment
- HCMOS output with Tri-state function
- Low current consumption
- Ceramic package, Dimensions(3.2x2.5x1.0)
- Low phase noise, Low jitter
- High stability $\pm 2.5\text{ppm} / -40 \sim +105^\circ\text{C}$

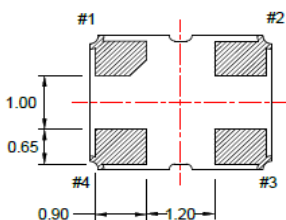
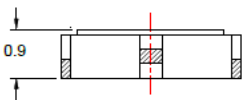
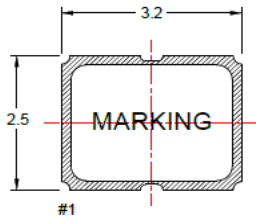
Specifications



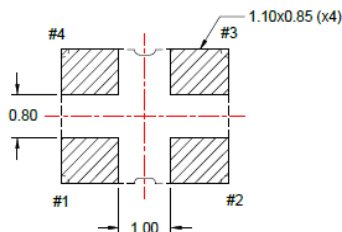
Model	TXO93	
Nominal frequency	8.000~70.000MHz	
Nominal frequency (MHz)	19.2, 26, 38.4, 52	
Frequency stability	Tolerance at 25°C	$\pm 2.0 \times 10^{-6}$ (Sixty minutes after reflow)
	Temperature (Ref.to+25°C)	$\pm 2.5 \times 10^{-6} / -40 \sim +105^\circ\text{C}$
	Supply voltage change	$\pm 0.2 \times 10^{-6} / V_{dd} \pm 5\%$
	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	
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