

Temperature-Compensated  
Crystal Oscillator

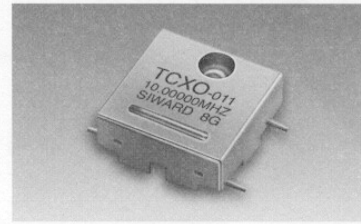
TXO51,VTX51 series SMD Type

SIWARD

### ● Typical applications

Computer control, Cordless telephone, Automobile telephone,  
Telecommunication

● Dimension 11.4X11.4X4.5[mm]

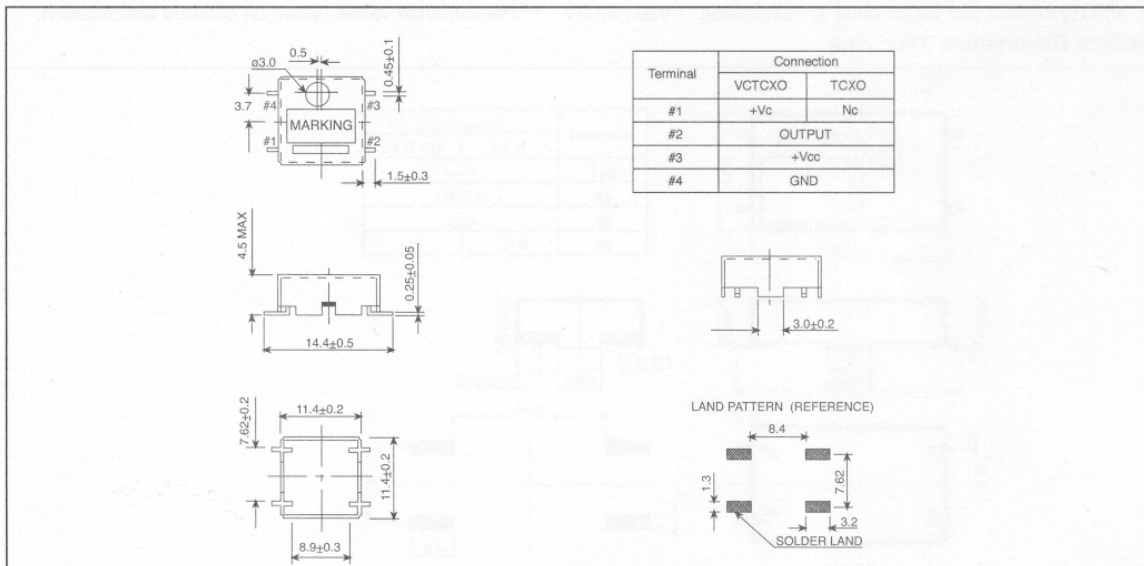


### ● Typical specifications

Model		TXO51,VTX51			
Frequency range		9.6~45MHz		1.2~45MHz	
Nominal Frequency		9.6, 10.0, 12.8, 14.4, 16.384, 19.44, 20.00, 40.00, 44.736MHz			
Frequency Stability	Tolerance	$\pm 1.0 \times 10^{-6}$ Max. $F \leq 30$ MHz $\pm 2.0 \times 10^{-6}$ Max. $F > 30$ MHz		$\pm 1.0 \times 10^{-6}$ Max. $F \leq 30$ MHz $\pm 2.0 \times 10^{-6}$ Max. $F > 30$ MHz	
	Temperature	$\pm 1.0 \times 10^{-6}$ $F \leq 34.9$ $\pm 2.0 \times 10^{-6}$ $F > 34.9$	$\pm 2.5 \times 10^{-6}$ $F \leq 34.9$ $\pm 3.5 \times 10^{-6}$ $F > 34.9$	$\pm 1.0 \times 10^{-6}$ $F \leq 34.9$ $\pm 2.0 \times 10^{-6}$ $F > 34.9$	$\pm 2.5 \times 10^{-6}$ $F \leq 34.9$ $\pm 3.5 \times 10^{-6}$ $F > 34.9$
	Supply voltage	$\pm 0.3 \times 10^{-6}$ Max.		$\pm 0.5 \times 10^{-6}$ Max.	
	Aging	$\pm 1.0 \times 10^{-6}$ Max.		$\pm 1.0 \times 10^{-6}$ Max.	
Temperature range	Operating	0~+50°C	-30~+75°C	0~+50°C	-30~+75°C
	Storage	-40~+85°C		-40~+85°C	
Power supply voltage(VDC)		+3~+5V( $\pm 5\%$ )		+3~+5V( $\pm 5\%$ )	
Current consumption		2.0(*2.0)mA Max. : 9.6~20MHz 3.0(*2.0)mA Max. : 20.1~30MHz 4.0(*3.0)mA Max. : 30.1~45MHz		15mA Max. : 1.2~20MHz 25mA Max. : 20.1~34.9MHz 30mA Max. : 35~45MHz	
Output	Load	10k $\Omega$ /10pF		15pF	2TTL
	Voltage	1.0Vp-p Min. *0.7Vp-p Min.		Vol:0.1Vcc Max. Voh:0.9Vcc Min.	Vol:0.4 Max. Voh:2.4 Min.
	Symmetry			40~60% at 1/2Vcc	40~60% at +1.4V
	Waveform	Sine		Square/CMOS	Square/TTL
	Phase noise ( at 1.0kHz ) [dBc/Hz]	-140 Max. : $F < 12$ MHz ** -140 Max. : $12 \leq F < 20$ MHz -135 Max. : $20 \leq F < 40$ MHz		-135 Max. : $F < 12$ MHz ** -130 Max. : $12 \leq F < 20$ MHz -125 Max. : $20 \leq F < 40$ MHz	
Frequency adjustment trimmer		$\pm 3 \times 10^{-6}$		$\pm 3 \times 10^{-6}$	

\* Please consult with us for other specification. \*Vcc : +3.3V \*\*\*Performance varies based on different specification.

### ● Outline Dimensions [Unit : mm]



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