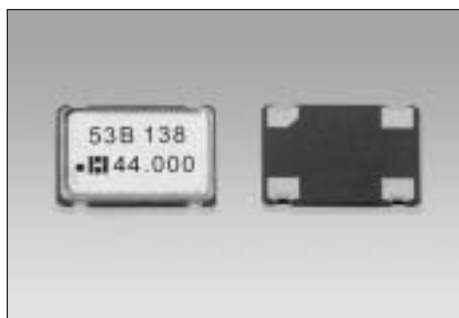




• HXO-53 Series 5.0X3.2X1.3 mm



The HXO-53 series is an ultra miniature package clock oscillator with size of 5.0X3.2X1.3mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

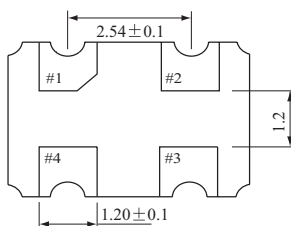
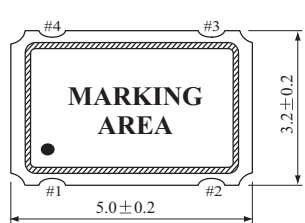
- 5X3.2X1.3 Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 5.0V Input Voltage

Electrical Specifications

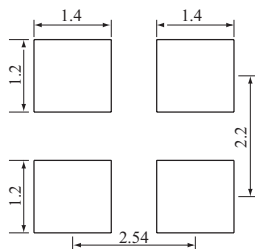
Parameter	Condition	HXO-53
Frequency Range F_0		1.544MHz~125.000MHz
Frequency Stability*	All Condition*	$\pm 25\text{ppm}$, $\pm 50\text{ppm}$, $\pm 100\text{ppm}$
Operating Temperature Range T_{OPR}		$0^\circ\text{C}\sim 70^\circ\text{C}$ ($-40^\circ\text{C}\sim +85^\circ\text{C}$ option)
Storage Temperature Range T_{STG}		$-55^\circ\text{C}\sim +125^\circ\text{C}$
Power supply Voltage V_{DD}		5.0V+/-10%
Aging(First Year)	$25^\circ\text{C} \pm 3^\circ\text{C}$	$\pm 5\text{ppm}$
Supply Current I_{DD}	1.544MHz to 9.999MHz	15mA Max
	10.000MHz to 34.999MHz	20mA Max
	35.000MHz to 49.999MHz	35mA Max
	50.000MHz to 125.000MHz	40mA Max
Output Symmetry Sym	At $1/2V_{DD}$	40/60%(45/55% Option)
Rise time T_r	$10\%V_{DD}\sim 90\%V_{DD}$	5 nS Max
Fall Time T_f	$90\%V_{DD}\sim 10\%V_{DD}$	5 nS Max
Output Voltage V_{OH} V_{OL}		90% V_{DD} min
		10% V_{DD} max
Output Load HCMOS Load		30pF Max(15pF typ)
Start-up Time T_s		10mS Max
Pin 1, tri-state function		Pin 1=H or open....Output active at pin 3 Pin 1=L.....high impedance at pin 3

*Include: 25°C tolerance, operating temperature range, input voltage change, aging, load change, shock and vibration

Mechanical Dimensions(mm)



Pin	Connection
#1	Tri-State/NC
#2	GND
#3	Output
#4	+5.0V _{DC}



Recommended Solder Pattern

**Note: A 0.01uF bypass capacitor should be placed between V_{DD} (Pin4) and GND(Pin2) to Minimize power supply line noise

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Specifications are subject to change without notice