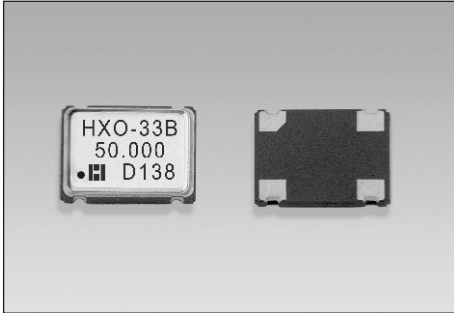




SURFACE MOUNT OSCILLATOR

• HXO-33 Series 7.0X5.0X1.5mm



The HXO-33 series is an ultra miniature package clock oscillator with size of 7.0X5.0X1.5mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

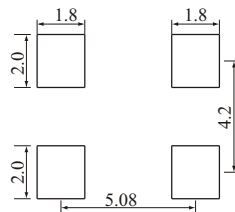
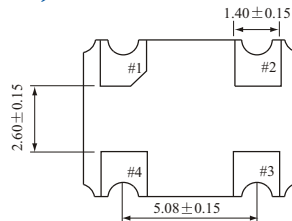
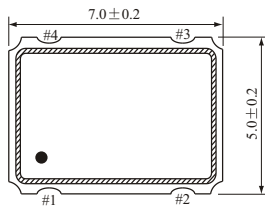
- Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 5.0V Input Voltage

Electrical Specifications

Parameter	Condition	HXO-33	
Frequency Range	F _O	1MHz~125.00MHz	
Frequency Stability*	All Condition*	±25ppm, ±50ppm, ±100ppm	
Operating Temperature Range	T _{OPR}	0°C~70°C (-40°C~+85°C option)	
Storage Temperature Range	T _{STG}	-55°C~+125°C	
Power supply Voltage	V _{DD}	5.0V+/-10%	
Aging(First Year)	25°C ± 3°C	±5ppm	
Supply Current	I _{DD}	1.000 to 23.999MHz	20mA Max
		24.000MHz to 49.999MHz	30mA Max
		50.000MHz to 69.999MHz	40mA Max
		70.000MHz to 125.000MHz	60mA Max
Output Symmetry	Sym	At 1/2V _{DD}	40/60%(45/55% Option)
Rise time	T _r	10%V _{DD} ~90%V _{DD}	5 nS Max
Fall Time	T _f	90%V _{DD} ~10%V _{DD}	5 nS Max
Output Voltage	V _{OH}		90% V _{DD} min
	V _{OL}		10% V _{DD} max
Output Load	TTL Load		1~10TTL
	HCMOS Load		30pF Max(15pF type)
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	+5V _{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