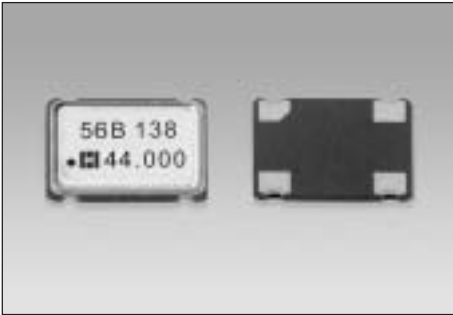




SURFACE MOUNT OSCILLATOR

• HXO-56&57&59 Series 5.0X3.2X1.3 mm



The HXO-56 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

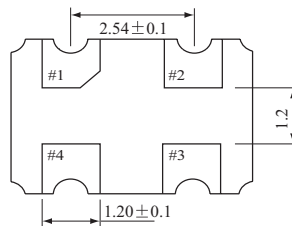
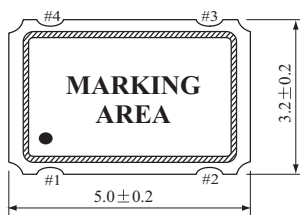
- 5X3.2X1.3 Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 3.3V Input Voltage
- 2.5V&1.8V Option

Electrical Specifications

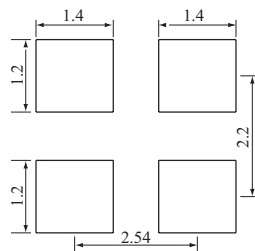
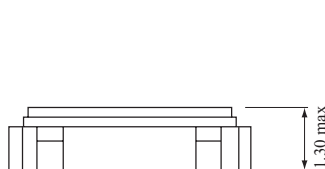
Parameter	Condition	HXO-56	HXO-57	HXO-59
Frequency Range	F _O	1.544MHz~125.000MHz		
Frequency Stability*	All Condition*	±25ppm, ±50ppm, ±100ppm		
Operating Temperature Range	T _{OPR}	0°C~70°C(-40°C~+85°C option)		
Storage Temperature Range	T _{STG}	-55°C~+125°C		
Power supply Voltage	V _{DD}	3.3V+/-10%	1.8V+/-10%	2.5V+/-10%
Aging(First Year)	25°C ± 3°C	±5ppm		
Supply Current	I _{DD}	1.544MHz to 9.999MHz	8mA Max	6mA Max
		10.000MHz to 34.999MHz	10mA Max	7mA Max
		35.000MHz to 49.999MHz	25mA Max	15mA Max
		50.000MHz to 125.000MHz	35mA Max	25mA Max
Output Symmetry	Sym	At 1/2V _{DD} 40/60%(45/55% Option)		
Rise time	T _r	10%V _{DD} ~90%V _{DD}	7 nS Max	5 nS Max
Fall Time	T _f	90%V _{DD} ~10%V _{DD}	7 nS Max	5 nS Max
Output Voltage	V _{OH}	90% V _{DD} min		
	V _{OL}	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	+3.3V _{Dc} (2.5V&1.8V)



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