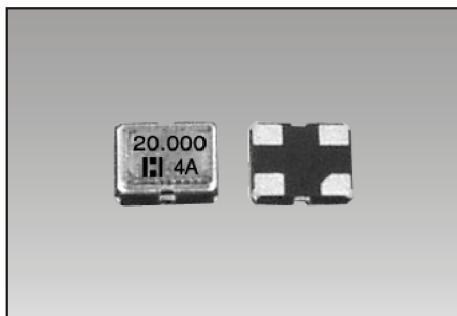




• HXO-SC&SD&SE Series 3.2X2.5X1.2 mm



The HXO-S series is an ultra miniature package clock oscillator with size of 3.2X2.5X1.2mm. It is mainly used in portable PC and telecommunication devices and equipment.

FEATURES

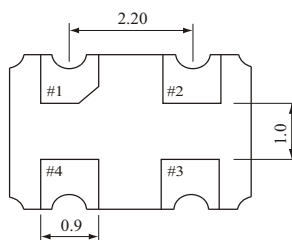
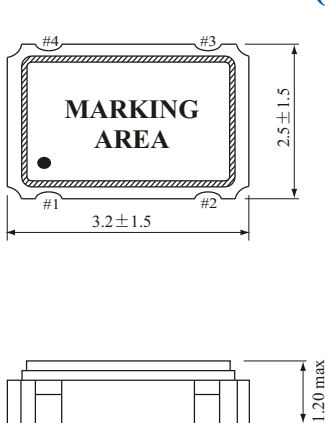
- 3.2X2.5X1.2 Miniature Package
- Tri-State Enable/Disable
- TTL/HCMOS compatible
- Tape and Reel
- IR Re-flow
- 3.3V Input Voltage
- 2.5V&1.8V Option

Electrical Specifications

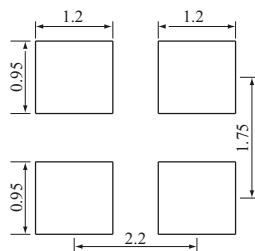
Parameter	Condition	HXO-SC	HXO-SD	HXO-SE
Frequency Range	F _O	1.544MHz~80MHz		
Frequency Stability*	All Condition*	±25ppm, ±50ppm, ±100ppm		
Operating Temperature Range	T _{OPR}	0°C~70°C (-40°C~+85°C option)		
Storage Temperature Range	T _{STG}	-55°C~+125°C		
Power supply Voltage	V _{DD}	3.3V+/-10%	2.5V+/-10%	1.8V+/-10%
Aging(First Year)	25°C ± 3°C	± 5ppm		
Supply Current	I _{DD}	1.544MHz to 32MHz	2mA Max	2mA Max
		32MHz to 60MHz	3mA Max	3mA Max
		60MHz to 80MHz	4mA Max	4mA Max
Output Symmetry	Sym	At 1/2V _{DD} 40/60%(45/55% Option)		
Rise time	T _r	10%V _{DD} ~90%V _{DD}	4 nS Max	4 nS Max
Fall Time	T _f	90%V _{DD} ~10%V _{DD}	4 nS Max	4 nS Max
Output Voltage	V _{OH}	90% V _{DD} min		
	V _{OL}	10% V _{DD} max		
Output Load	HCMOS Load	15pF Max		
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
#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