

## HXO-SC / SD / SE Series 1.0 to 125MHz



### FEATURES

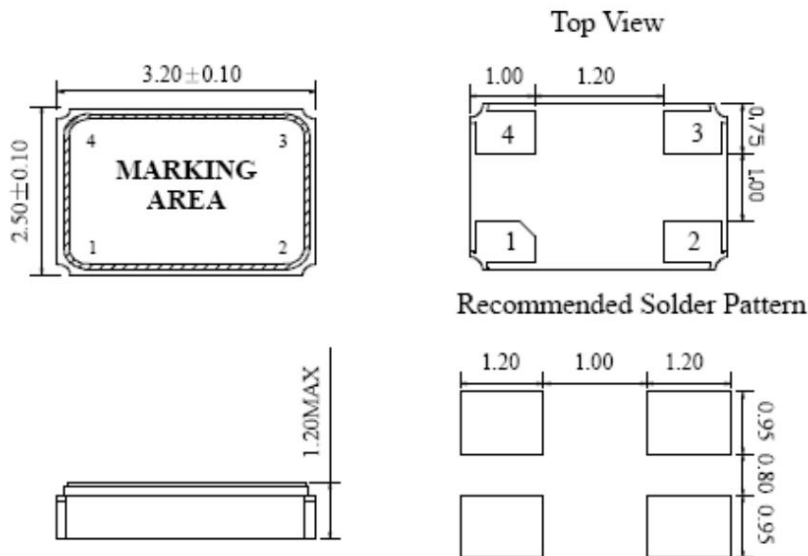
- High reliability for low cost
- Tri-state Enable/Disable
- Industry Standard
- Wide Frequency Range
- Low Cost

### Electrical Specifications

Parameter	Symbol	Condition	HXO-SC	HXO-SD	HXO-SE
Frequency Range	F <sub>0</sub>		1.0 to 125.0MHz		
Frequency Stability *		All Condition *	±25PPM, ±50PPM, ±100PPM		
Power Supply Voltage (±10%)	V <sub>DD</sub>		3.3V	2.8V	1.8V
Operating Temperature Range	T <sub>OPR</sub>		-20°C to 70°C (-40°C to 85°C option)		
Storage Temperature Range	T <sub>STG</sub>		-55°C to 125°C		
Aging (first year)		25°C ± 3°C	± 5PPM		
Supply Current	I <sub>DD</sub>	1.000MHz to 9.999MHz	8mA Max	7mA Max	6mA Max
		10.000MHz to 34.999MHz	10mA Max	8mA Max	7mA Max
		35.000MHz to 49.999MHz	25mA Max	20mA Max	15mA Max
		50.000MHz to 125.00MHz	35mA Max	30mA Max	25mA Max
Output Symmetry	Sym	½ V <sub>DD</sub>	40/60% (45/55% option)		
Rise Time	T <sub>r</sub>	10%V <sub>DD</sub> to 90%V <sub>DD</sub>	5ns Max	6ns Max	7ns Max
Fall Time	T <sub>f</sub>	90%V <sub>DD</sub> to 10%V <sub>DD</sub>	5ns Max	6ns Max	7ns Max
Output Voltage	V <sub>OH</sub>		90% V <sub>DD</sub> Min		
	V <sub>OL</sub>		10% V <sub>DD</sub> Max		
Output Load HCMOS Load	---	---	15pF Typ.		
Startup Time	T <sub>s</sub>		10ms Max		
Pin 1, tri-state function			Pin 1= High or Open, output active at Pin 3		
			Pin 1= Low, high impedance at Pin 3		

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

### Mechanical Dimensions – mm (inch)



Enable/Disable Function	
Input (Pin1)	Output (Pin3)
Open	Enable
High	Enable
Low	Disable

Pin	Connection
1	Tri-state/NC
2	GND
3	Output
4	V <sub>DD</sub>

\*\*Note: 0.01uF bypass capacitor should be placed between V<sub>DD</sub> (Pin4) and GND(Pin2) to minimize power supply line noise