

## CX84 Series

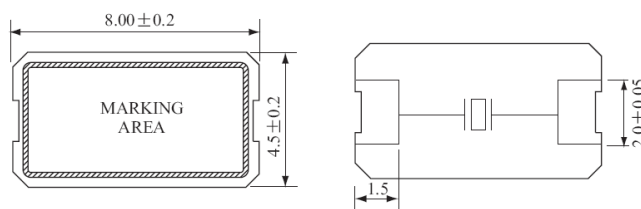
### Electrical Specifications

Parameter	Symb	Condition	Min	Type	Max	Units
Frequency Range	F <sub>0</sub>		10		80	MHz
Frequency Tolerance	ΔF/ F <sub>0</sub>	AT 25°C	±30	±50	±100	ppm
Temperature Stability	T <sub>c</sub>	REF TO 25°C	±30	±50	±100	ppm
Operating Temperature Range	T <sub>OPR</sub>		-10		+70	°C
Storage Temperature Range	T <sub>STG</sub>		-40		+85	°C
Shunt Capacitance	C <sub>0</sub>				7	pF
Load Capacitance	C <sub>L</sub>	Customer specified	10		Series	pF
Insulator Resistance	I <sub>R</sub>	100V <sub>DC</sub>	500			MΩ
Drive Level	D <sub>L</sub>			100	300	μW
Aging	F <sub>a</sub>	AT 25°C,per year	-5.0		+5.0	ppm

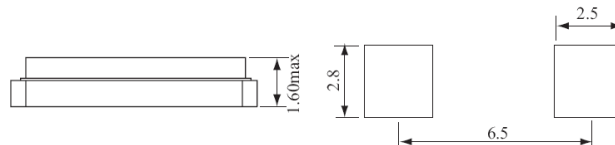
### Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)

Frequency Range	Max ESR(Ω)	Mode
10.000MHz to 11.999MHz	80	Fundamental
12.000MHz to 39.999MHz	50	Fundamental
40.000MHz to 80.000MHz	70	3 <sup>rd</sup> Overtone

### Mechanical Dimensions(mm)



#### Recommended Solder Pattern



CX84-A20C18-25M000

Package	Frequency Stability	Frequency Tolerance	Operating temperature Range	Load Capacitance	Nominal Frequency (In MHz)
HC49SM	A=±10ppm	10=±10ppm	A=0 to +70°C	00=series	25M000=25.000MHz
HC49SX	B=±20ppm	20=±20ppm	B=-20 to +70°C	10=10pF	32K768=32.768KHz
CX32	C=±30ppm	30=±30ppm	C=-40 to +85°C	18=18pF	
CX42	D=±50ppm	50=±50ppm	D=-40 to +105°C	32=32pF	
CX5F	E=±100ppm	00=±100ppm			
CX5S					
CX6F					
CX6S					
CX75					
CX84					

SMD Crystal Units Part Numbering System