

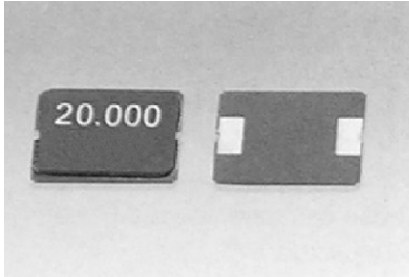


## HCX-5SA SERIES 5.2X 3.2X 1.2 MM

### FEATURES

- Ultra-miniature size
- Fundamental till 54MHz
- Wide Frequency Range
- Ceramic package
- Emboss taping
- Reflow soldering

The 5FA crystal is a ultra miniature ceramic package SMD type. The height is less than 1.4mm and fundamental till 54MHz that allows is ease of circuit design. Excellent electric performance optimum for OA and AV application.



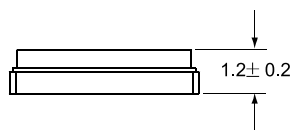
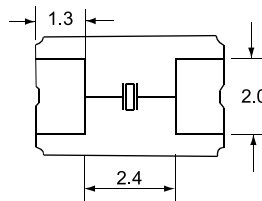
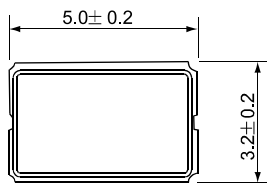
## Electrical Specifications

Parameter	Symb	Condition	Min	Typ	Max	Units
Frequency Range	F <sub>0</sub>		12		54	MHz
Frequency Tolerance at 25°C	ΔF/ F <sub>0</sub>	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	8		Series	pF
Insulator Resistance	I <sub>R</sub>	100V <sub>DC</sub>	500			MΩ
Drive Level	D <sub>L</sub>		10	100	300	μW
Aging(at 25°C )	F <sub>a</sub>	AT 25°C ,per year	-5.0		+5.0	ppm

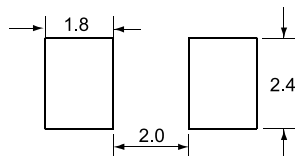
## Equivalent Series Resistance(ESR) and Mode of Vibration(Mode)

Frequency Range	Max ESR(Ω )	Mode
12.000MHz to 19.999MHz	120	Fundamental
20.000MHz to 29.999MHz	70	Fundamental
30.000MHz to 54.000MHz	50	Fundamental

## Mechanical Dimensions(mm)



### Recommended Solder Pattern





# HCX-5SA

Surface Mount Crystal

## Ordering Information

