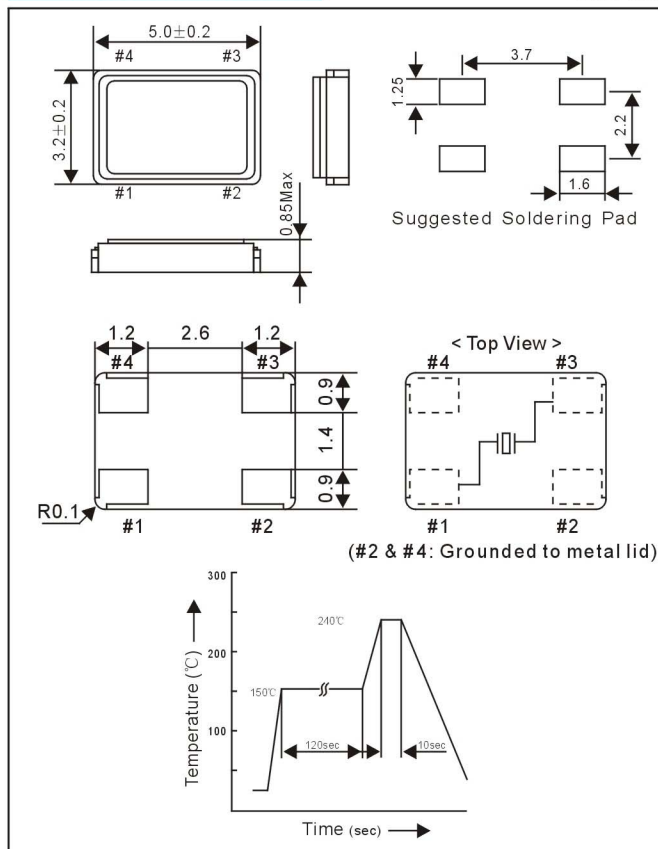


Series KX9A KX9AT KX9AE

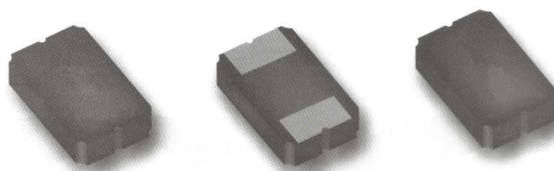


External dimensions

Unit: mm

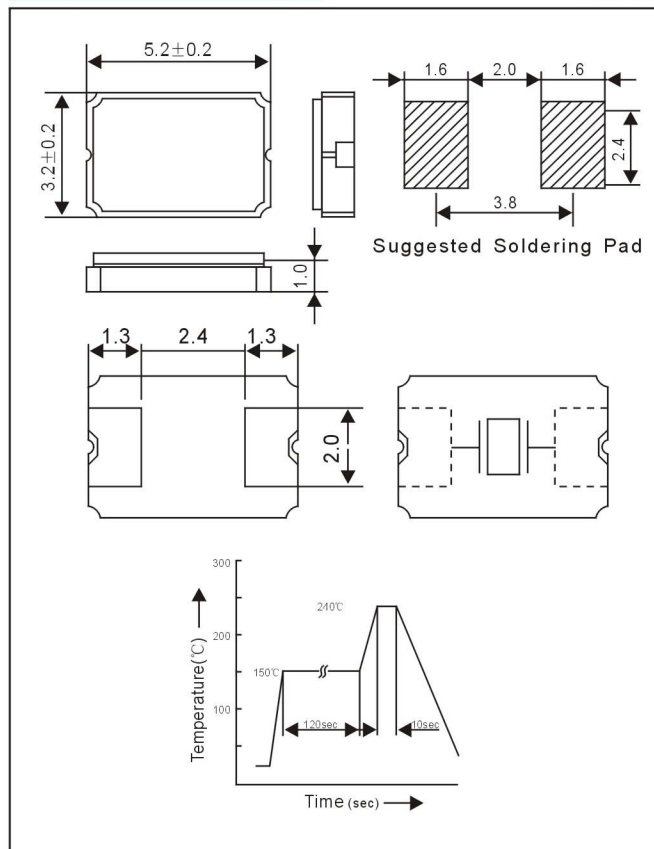


Series KX9B KX9BT KX9BE



External dimensions

Unit: mm



Item	Specification	Remarks
Nominal Frequency Range	10.000MHz to 130.000MHz	Fundamental Mode
	70.000MHz to 300.000MHz	3 rd Overtone Mode
	120.000MHz to 250.000MHz	5 th Overtone Mode
Operating Temperature Range	-20°C to +70°C	KX9A
	-40°C to +85°C	KX9AT
	-40°C to +105°C	KX9AE
Frequency Tolerance	±50PPM at 25°C ±3°C	±10 to ±50PPM(Available)
Temperature Tolerance	±50PPM at -20°C to +70°C	±10 to ±50PPM(Available)
	±100PPM at -40°C to +85°C	±20 to ±100PPM(Available)
	±120PPM at -40°C to +105°C	±30 to ±120PPM(Available)
	±120PPM at -40°C to +85°C	±30 to ±120PPM(Available)
Load Capacitance	16pF(Standard)	10 to 20pF(Available)
Series Resistance	As ESR Table	
Shunt Capacitance	5.0pF	Minimum
Drive Level	100 μ W	
Aging	±2PPM/Year	Maximum

Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
10.000~12.000	Fund.	100	50.100~130.000	Fund.	30
12.100~16.000	Fund.	80	70.000~300.000	3 rd O.T.	80
16.100~30.000	Fund.	60	120.000~250.000	3 rd O.T.	80
20.100~50.000	Fund.	40			

Remark:
All specifications subject to change without notice.

Item	Specification	Remarks
Nominal Frequency Range	12.000MHz to 50.000MHz	Fundamental Mode
Operating Temperature Range	-20°C to +70°C	KX9B
	-40°C to +85°C	KX9BT
	-40°C to +105°C	KX9BE
Frequency Tolerance	±50PPM at 25°C ±3°C	±10 to ±50PPM (Available)
Temperature Tolerance	±50PPM at -20°C to +70°C	±10 to ±50PPM (Available)
	±100PPM at -40°C to +85°C	±20 to ±100PPM (Available)
	±120PPM at -40°C to +105°C	±30 to ±120PPM (Available)
	±120PPM at -40°C to +85°C	±30 to ±120PPM (Available)
Load Capacitance	16pF(Standard)	7 to 20pF (Avaible)
Series Resistance	As ESR Table	
Shunt Capacitance	5.0pF	Minimum
Drive Level	100 μ W	
Aging	±5PPM/Year	Maximum

Resistance of Series Resonance (ESR)

Frequency (MHz)	Mode	Ohm Max	Frequency (MHz)	Mode	Ohm Max
12.100~16.000	Fund.	100	20.100~60.000	Fund.	40
16.100~20.000	Fund.	60			

Remark:
All specifications subject to change without notice.