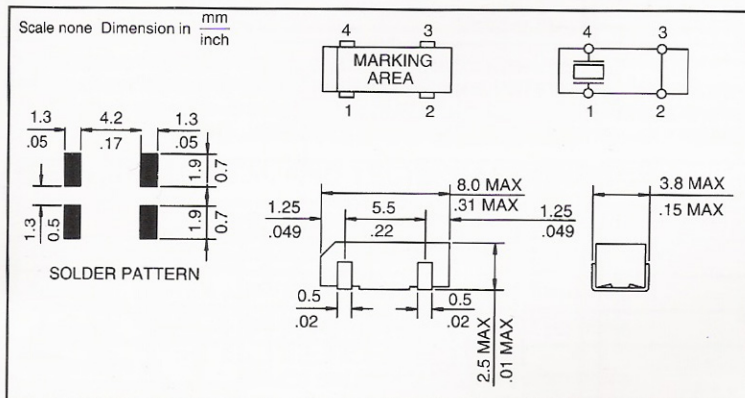


## LSM200S SERIES TUNING FORK CRYSTAL

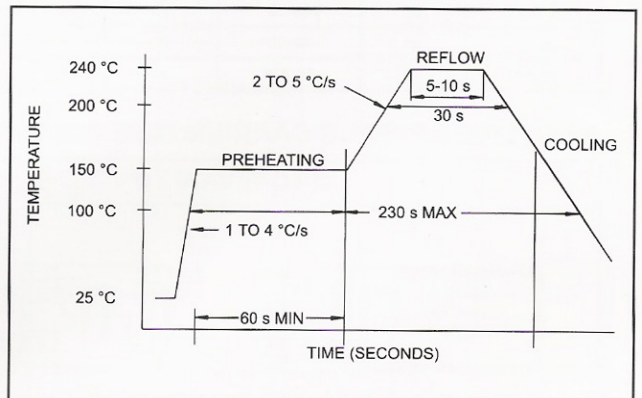
### ● SPECIFICATIONS

SERIES	LSM200S
NOMINAL FREQUENCY	32.768KHz
FREQUENCY TOLERANCE AT 25	±20 PPM
TURNOVER TEMPERATURE	25 ± 5
PARABOLIO OURVATURE CONSTANT	(-0.034 ± 0.006 )PPM/D C <sup>2</sup>
OPERATING TEMPERATURE RANGE	-10 TO +60
OPERABLE TEMPERATURE RANGE	-40 TO +85
STORAGE TEMPERATURE RANGE	-55 TO -125
AGING (FIRST YEAR)	±3 PPM MAXIMUM
EQUIVALENT SERIES RESISTANCE(ESR)	50K OHM MAXIMUM
LOAD CAPACITANCE	12.5 pF
SHUNT CAPACITANCE	1.35pF TYPICAL
MOTIONAL CAPACITANCE	0.003 pF TYPICAL
CAPACITANCE RATIO	450 TYPICAL
DRIVE LEVEL	1 μ W MAXIMUM
INSULATION RESISTANCE	500 M OHM MINIMUM
SHOCK RESISTANCE	±5 PPM MAXIMUM 75cm DROP TEST ONTO A HARD SRFACE OR 3000g × 0.3ms × 1/2 SINEWAVE IN 3 AXES
REFLOW CONDITIONS	240 FOR 10 SECONDS MAXIMUM(SEE PROFILE)

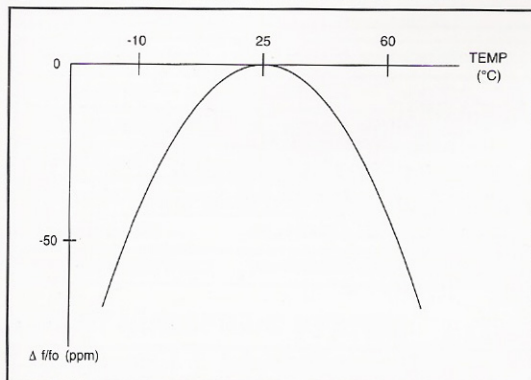
### ● OUTLINE DRAWING



### ● REFLOW SOLDERING PROFILE



### ● FEQUENCY VS. TEMPERATURE CURVE



### ● CARRIER TAPE DIMENSIONS

