

### FEATURES

- SUITABLE FOR TIME OF DAY CLOCKS
- SMALL AND COMPACT PACKAGE
- IDEAL FOR PICK AND PLACE ASSEMBLY

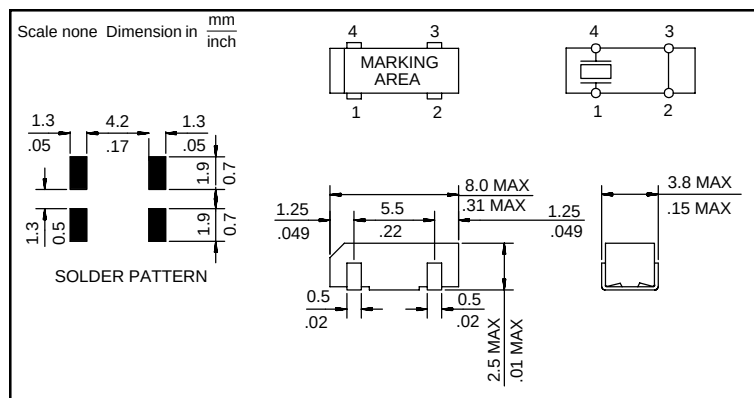
### SPECIFICATIONS

|                                    |                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------|
| SERIES                             | RSM200S                                                                                      |
| NOMINAL FREQUENCY                  | 32.768 KHz                                                                                   |
| FREQUENCY TOLERANCE AT 25°C        | ±20 PPM                                                                                      |
| TURNOVER TEMPERATURE               | 25°C ±5 °C                                                                                   |
| PARABOLIC CURVATURE CONSTANT       | $(-0.034 \pm 0.006) \text{ PPM}/\Delta^2\text{C}^2$                                          |
| OPERATING TEMPERATURE RANGE        | -10°C TO +60°C                                                                               |
| OPERABLE TEMPERATURE RANGE         | -40°C TO +85°C                                                                               |
| STORAGE TEMPERATURE RANGE          | -55°C TO +125°C                                                                              |
| AGING (FIRST YEAR)                 | ±3 PPM MAXIMUM                                                                               |
| EQUIVALENT SERIES RESISTANCE (ESR) | 50K OHM MAXIMUM                                                                              |
| LOAD CAPACITANCE                   | 12.5 pF                                                                                      |
| SHUNT CAPACITANCE                  | 1.35 pF TYPICAL                                                                              |
| MOTIONAL CAPACITANCE               | 0.003 pF TYPICAL                                                                             |
| CAPACITANCE RATIO                  | 450 TYPICAL                                                                                  |
| DRIVE LEVEL                        | 1 µW MAXIMUM                                                                                 |
| INSULATION RESISTANCE              | 500 M OHM MINIMUM                                                                            |
| SHOCK RESISTANCE                   | ±5 PPM MAXIMUM 75 cm DROP TEST ONTO A HARD SURFACE OR 3000 g x 0.3 ms x ½ SINEWAVE IN 3 AXES |
| REFLOW CONDITIONS                  | 260°C FOR 10 SECONDS MAXIMUM (SEE PROFILE)                                                   |

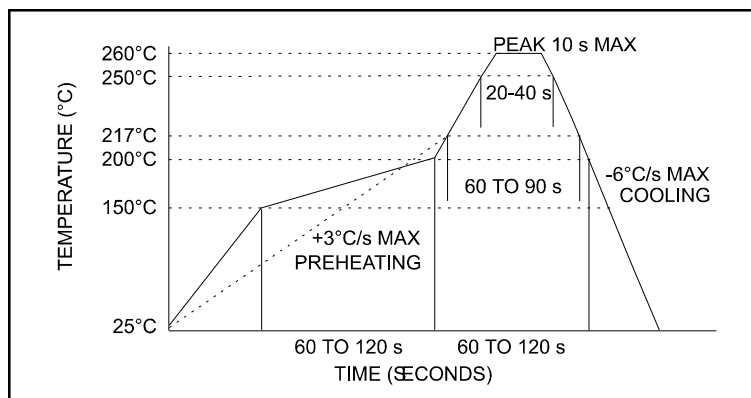
### SERIES RSM200S LEAD FREE



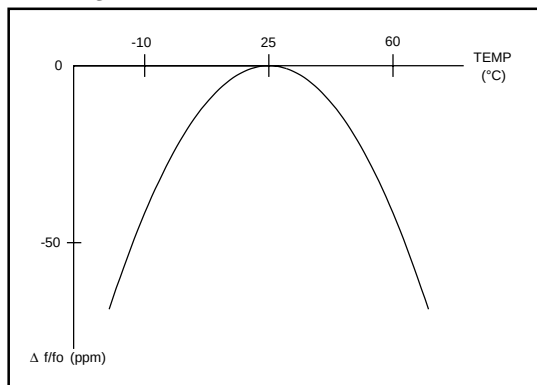
### OUTLINE DRAWING



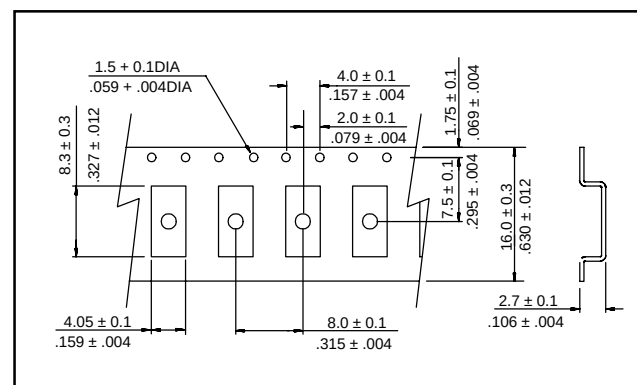
### REFLOW SOLDERING PROFILE



### FREQUENCY VS. TEMPERATURE CURVE



### CARRIER TAPE DIMENSIONS



### PACKAGING

330 mm REEL DIAMETER, 16mm TAPE WIDTH, 8mm PITCH  
 QUANTITY: 3000 PIECES PER REEL

### PART NUMBERING

EXAMPLE: RSM200S-32.768-12.5-TR-NPB