

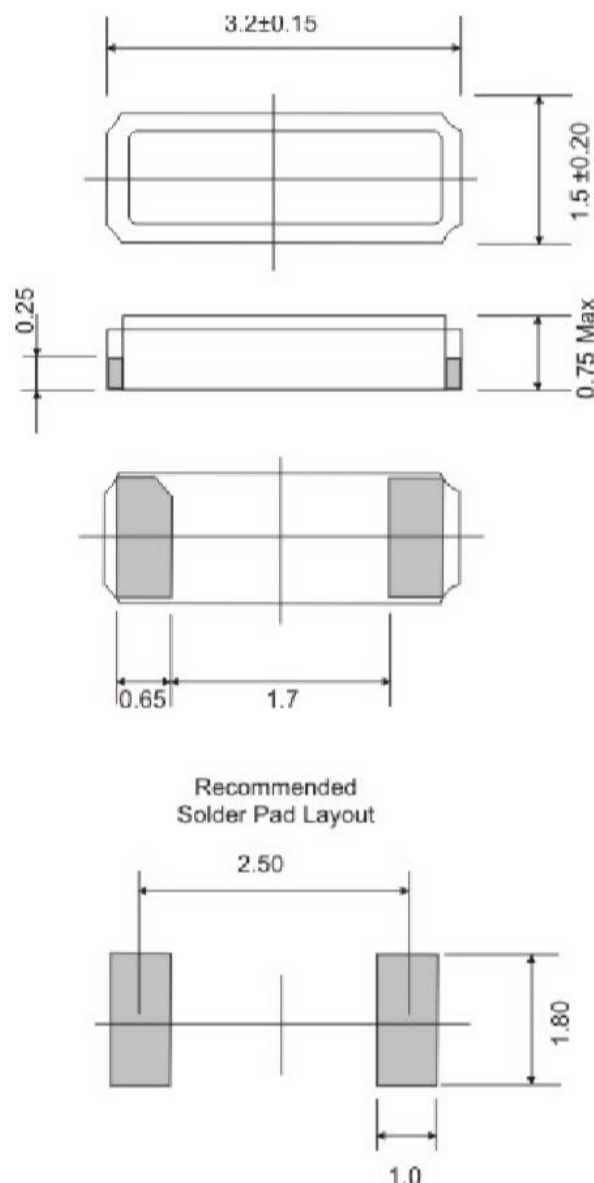
## Features

- SMD Tuning Fork Crystal Resonator
- Tolerance:  $\pm 20\text{ppm}$
- Operating Temperature  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

## STANDARD SPECIFICATIONS

| PARAMETERS                                     | MAX (Unless otherwise noted)                   |
|------------------------------------------------|------------------------------------------------|
| Frequency Range                                | 32.768000kHz                                   |
| Resonance Mode                                 | Fundamental                                    |
| Frequency Tolerance @ 25°C                     | $\pm 20\text{PPM}$                             |
| Temperature Range                              |                                                |
| Operating (TOPR)                               | $-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$ |
| Equivalent Series Resistance (ESR)             | 70,000 Max Ohm                                 |
| Shunt Capacitance (C0)                         | 1.0 Typ pF                                     |
| Ageing                                         | $\pm 3\text{ PPM max 1st year}$                |
| Load Capacitance                               | 9 pF                                           |
| Drive Level                                    | 0.001 Max mW                                   |
| Maximum Soldering Temp / Time                  | 260°C / 10 seconds x2                          |
| Moisture Sensitivity Level (MSL) per J-STD-033 | 1                                              |
| Termination Finish                             | Au over Ni                                     |
| Seal Method                                    | Not Specified                                  |
| Lead (Pb) Free                                 | Yes                                            |
| RoHS Compliant                                 | Yes                                            |

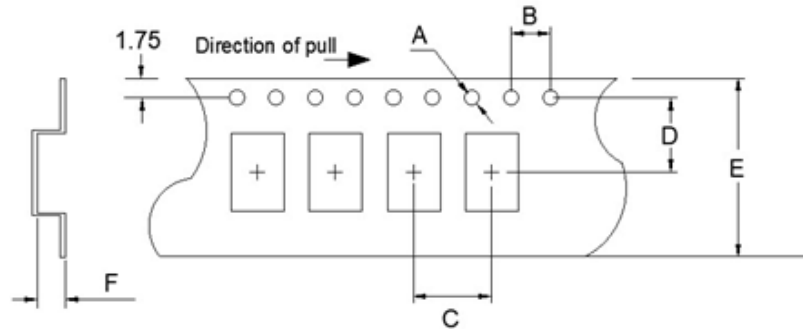
## DIMENSIONS/MECHANICAL SPECIFICATIONS



Dimensions are in mm

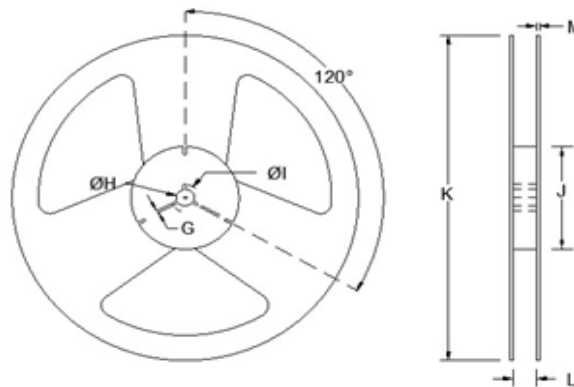
## TAPE SPECIFICATIONS (mm)

| A     | B   | C   | D   | E    | F   | REEL QTY |
|-------|-----|-----|-----|------|-----|----------|
| ø 1.5 | 4.0 | 4.0 | 5.5 | 12.0 | 1.0 | 3,000    |



## REEL SPECIFICATIONS (mm)

| G   | H    | I    | J    | K   | L  | M   |
|-----|------|------|------|-----|----|-----|
| 2.0 | ø 13 | ø 21 | ø 60 | 180 | 13 | 1.2 |



## RELIABILITY TEST CONDITIONS

Please contact Abracon Quality Assurance department