

## ● SPECIFICATIONS

| PARAMETER                               |                | VALUE                 |
|-----------------------------------------|----------------|-----------------------|
| NOMINAL FREQUENCY                       |                | 25.000 MHz            |
| MODE OF OSCILLATION                     |                | Fundamental           |
| FREQUENCY TOLERANCE AT 25°C             |                | ±10 ppm max           |
| FREQUENCY STABILITY<br>OVER TEMPERATURE | -40°C to -30°C | ±15 ppm max           |
|                                         | -30°C to +85°C | ±10 ppm max           |
| OPERATING TEMPERATURE RANGE             |                | -40°C to +85°C        |
| STORAGE TEMPERATURE RANGE               |                | -40°C to +85°C        |
| AGING                                   |                | ±2 ppm first year max |
| LOAD CAPACITANCE                        |                | 10 pF                 |
| EQUIVALENT SERIES RESISTANCE            |                | 60 Ω max              |
| SHUNT CAPACITANCE                       |                | 3.5 pF max            |
| DRIVE LEVEL                             |                | 200 μW max            |
| REFLOW CONDITIONS                       |                | 260°C for 10 sec max  |

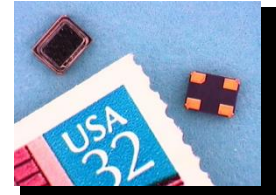
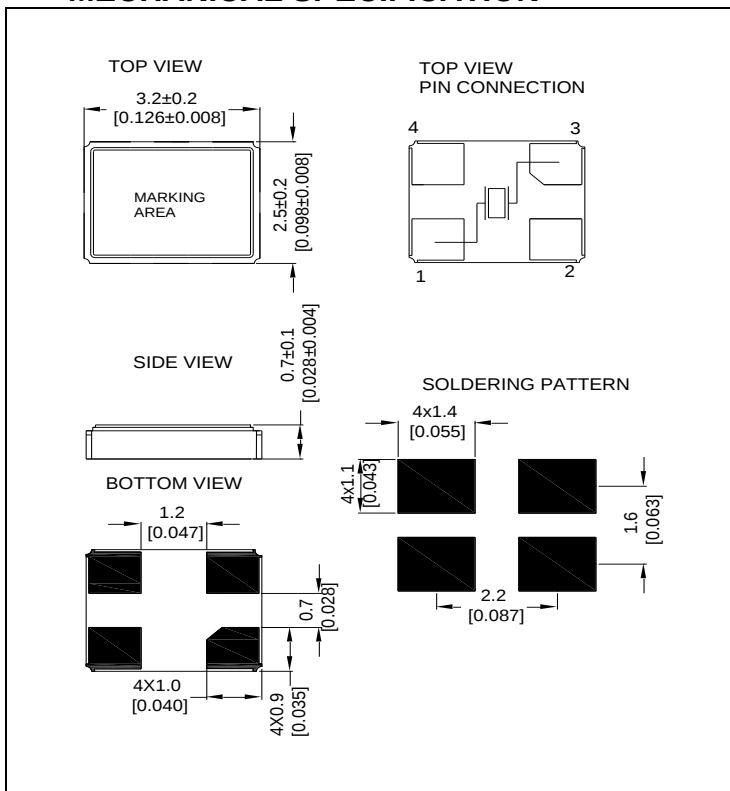
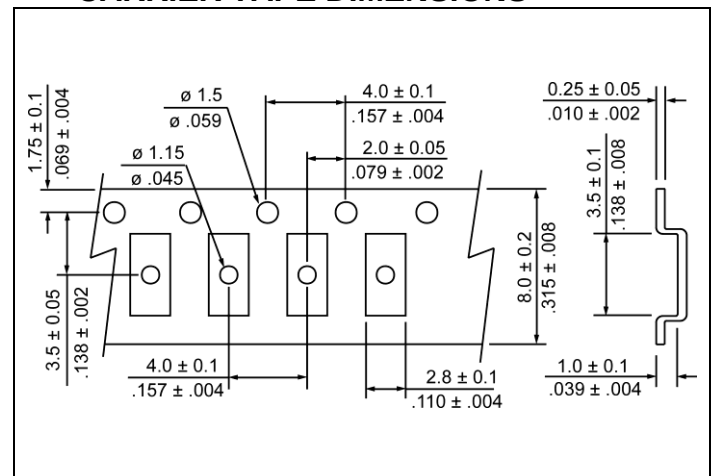


Photo is not actual part

- **MECHANICAL SPECIFICATION**



- **CARRIER TAPE DIMENSIONS**



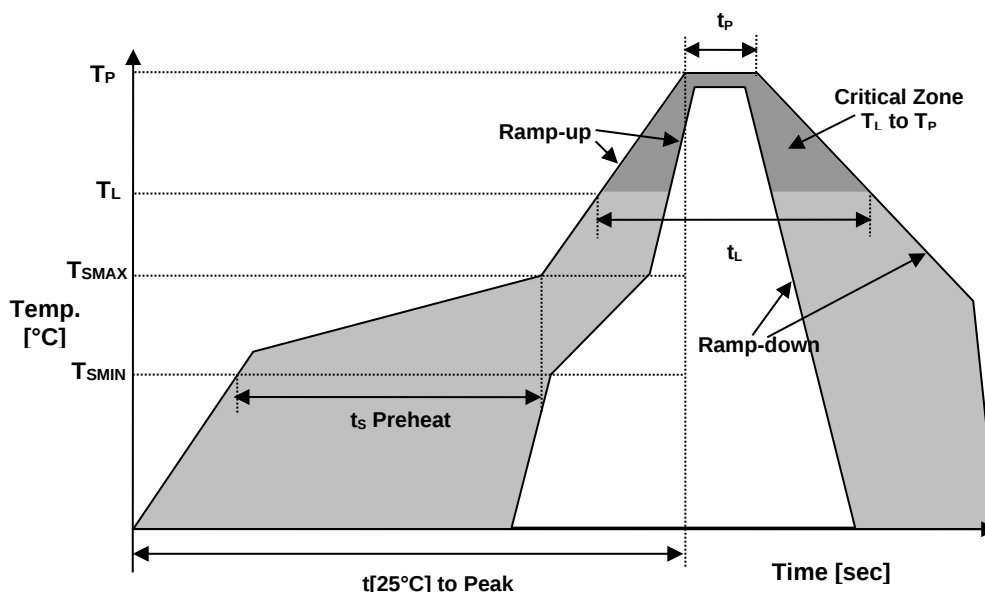
**NOTE: REFER TO EIA-481 FOR DIMENSIONS**

- **PACKAGING**

178 mm REEL DIAMETER  
8 mm TAPE WIDTH, 4 mm PITCH  
QUANTITY: 3000 PIECES PER REEL

IN ACCORDANCE WITH EIA-481

## REFLOW PROFILE



| Reflow profile                                 |                   |              |
|------------------------------------------------|-------------------|--------------|
| Temperature Min Preheat                        | T <sub>SMIN</sub> | 150°C        |
| Temperature Max Preheat                        | T <sub>SMAX</sub> | 200°C        |
| Time (T <sub>SMIN</sub> to T <sub>SMAX</sub> ) | t <sub>s</sub>    | 60-180 sec.  |
| Temperature                                    | T <sub>L</sub>    | 217°C        |
| Peak Temperature                               | T <sub>P</sub>    | 260°C        |
| Ramp-up rate                                   | R <sub>UP</sub>   | 3°C/sec max. |
| Ramp-down rate                                 | R <sub>DOWN</sub> | 6°C/sec max. |
| Time within 5°C of Peak Temperature            | t <sub>p</sub>    | 10 sec.      |
| Time t[25°C] to Peak Temperature               | t[25°C] to Peak   | 480 sec.     |
| Time                                           | t <sub>L</sub>    | 60-150 sec.  |

## ENVIRONMENTAL

| PARAMETER                  | VALUE     |
|----------------------------|-----------|
| MOISTURE SENSITIVITY LEVEL | 1         |
| RoHS                       | Compliant |
| REACH SVHC                 | Compliant |
| HALOGEN-FREE               | Compliant |
| ESD CLASSIFICATION LEVEL   | N/A       |
| TERMINATION FINISH         | Au        |



## MARKING

R25.000

xxKEyw

x – Internal Production ID code

y – Year code

w – Week code

| YEAR CODE |      |
|-----------|------|
| Year      | Code |
| 2015      | 5    |
| 2016      | 6    |
| 2017      | 7    |
| 2018      | 8    |
| 2019      | 9    |
| 2020      | 0    |
| 2021      | 1    |
| 2022      | 2    |
| 2023      | 3    |
| 2024      | 4    |
| 2025      | 5    |

| ALPHA WEEK CODE TABLE |      |      |      |      |      |
|-----------------------|------|------|------|------|------|
| Week                  | Code | Week | Code | Week | Code |
| 1                     | a    | 19   | s    | 37   | K    |
| 2                     | b    | 20   | t    | 38   | L    |
| 3                     | c    | 21   | u    | 39   | M    |
| 4                     | d    | 22   | v    | 40   | N    |
| 5                     | e    | 23   | w    | 41   | O    |
| 6                     | f    | 24   | x    | 42   | P    |
| 7                     | g    | 25   | y    | 43   | Q    |
| 8                     | h    | 26   | z    | 44   | R    |
| 9                     | i    | 27   | A    | 45   | S    |
| 10                    | j    | 28   | B    | 46   | T    |
| 11                    | k    | 29   | C    | 47   | U    |
| 12                    | l    | 30   | D    | 48   | V    |
| 13                    | m    | 31   | E    | 49   | W    |
| 14                    | n    | 32   | F    | 50   | X    |
| 15                    | o    | 33   | G    | 51   | Y    |
| 16                    | p    | 34   | H    | 52   | Z    |
| 17                    | q    | 35   | I    |      |      |
| 18                    | r    | 36   | J    |      |      |

## APPROVAL

|             |                                                                                                                                          |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| DRAWN BY    | K.Jackson, July 01, 2014                                                                                                                 |
| APPROVED BY | K.Jackson, July 01, 2014                                                                                                                 |
| REVISION    | A, Initial Release<br>B, Updated to current spec level by AG July 20, 2020<br>C, CP, February 02, 2021 Updated to the current spec level |

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SURFACE MOUNT MICROPROCESSOR CRYSTAL

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