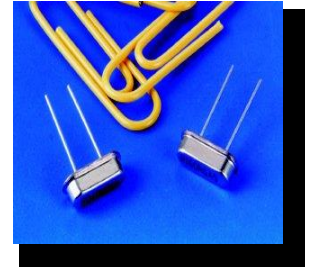
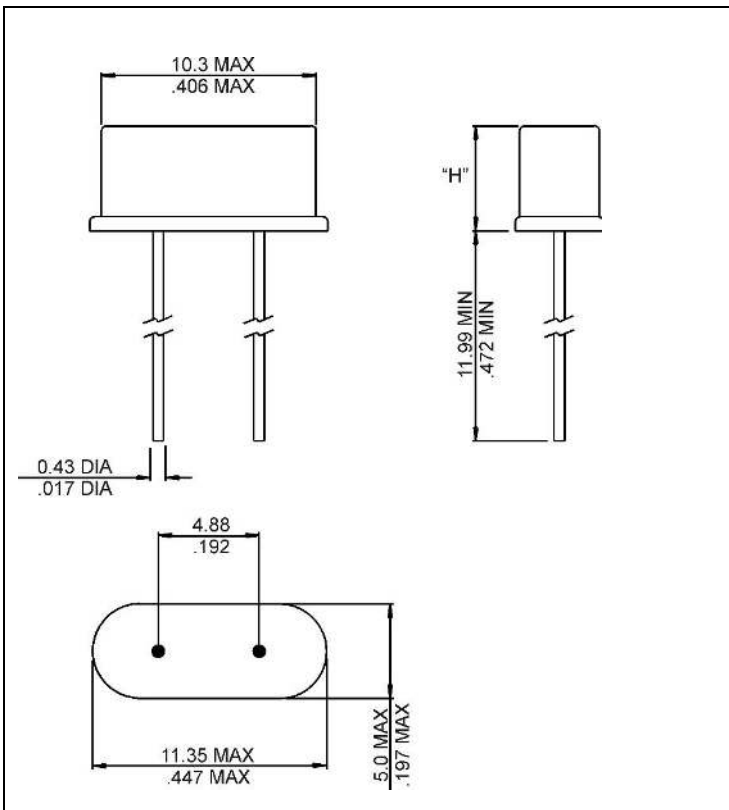


## • SPECIFICATIONS

| PARAMETER                            | VALUE                  |
|--------------------------------------|------------------------|
| NOMINAL FREQUENCY                    | 25.000 MHz             |
| MODE OF OSCILLATION                  | Fundamental            |
| FREQUENCY TOLERANCE AT 25°C          | ±30 ppm max            |
| FREQUENCY STABILITY OVER TEMPERATURE | ±50 ppm max            |
| OPERATING TEMPERATURE RANGE          | -20°C to +70°C         |
| STORAGE TEMPERATURE RANGE            | -55°C to +125°C        |
| AGING                                | ±5 ppm per year max    |
| LOAD CAPACITANCE                     | 18 pF                  |
| EQUIVALENT SERIES RESISTANCE         | 30 Ω max               |
| SHUNT CAPACITANCE                    | 6 pF max               |
| DRIVE LEVEL                          | 100 μW typ, 500 μW max |
| REFLOW CONDITIONS                    | 260°C for 10s max      |
| INSULATION RESISTANCE                | 500 MΩ min @ DC 100V   |



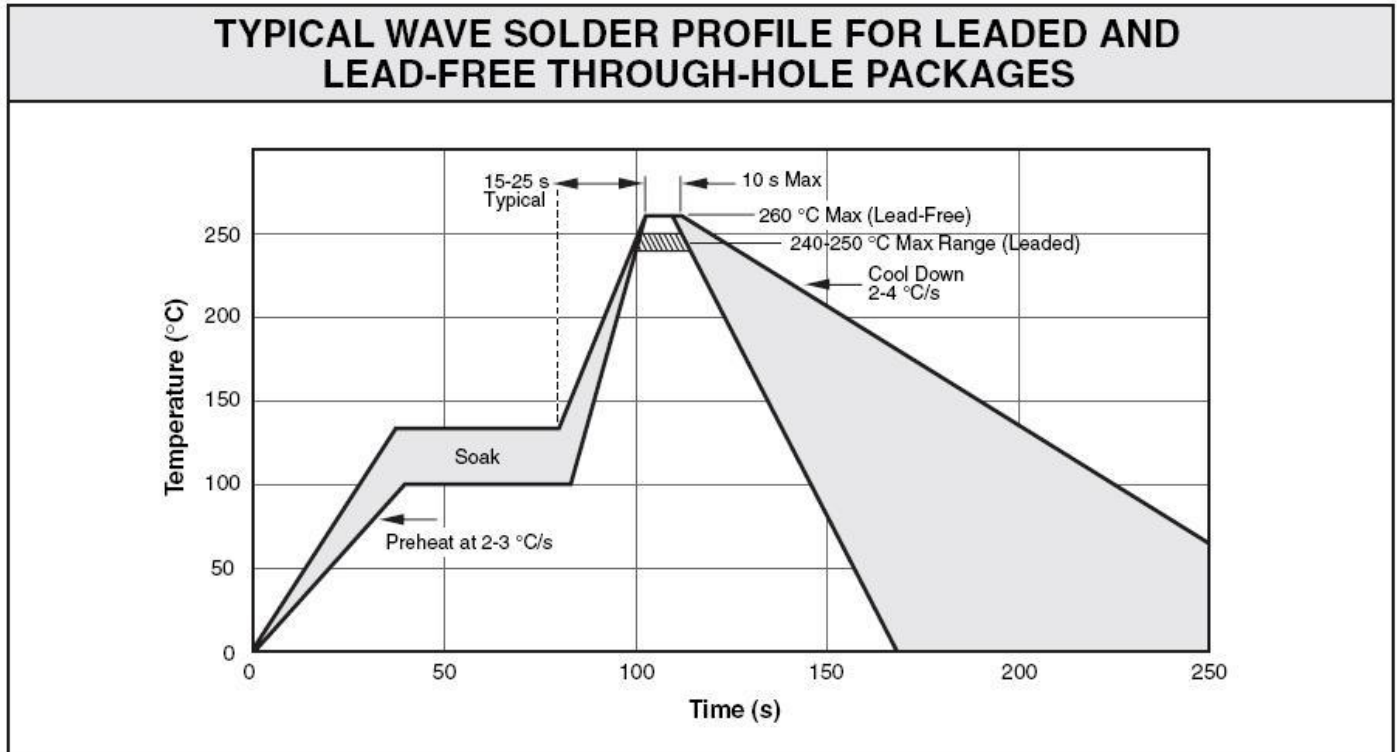
## • MECHANICAL SPECIFICATION



H=3.5 mm



● WAVE SOLDER PROFILE



| Wave Solder profile   |                                      |                                      |
|---|--------------------------------------|--------------------------------------|
| Profile Feature   | SnPb eutectic                        | Pb-Free                              |
| Average ramp-up rate  | ~200°C/second                        | ~200°C/second                        |
| Heating Rate during preheat                                   | typical 1-2°/second<br>max 4°/second | typical 1-2°/second<br>max 4°/second |
| Final preheat temperature, T <sub>S</sub>                     | ~130°C                               | ~130°C                               |
| Peak temperature, T <sub>P</sub>                              | 235°C                                | 260°C                                |
| Time within +0°C / -5°C of actual temperature, t <sub>P</sub> | 10 seconds                           | 10 seconds                           |
| Ramp-down rate  | 5°C/second max.                      | 5°C/second max.                      |

NOTE: This document should serve as recommendation only. Other parameters may also affect soldering, this profile does not guarantee absolute success. Soldering profile should be determined by the equipment manufacturer and customers' process engineer.

● ENVIRONMENTAL

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



## MARKING

R250xByw

x – 1 or 2 digits as 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:    | A, Initial Release, August 23, 2012                      |
| APPROVED BY: | A, Initial Release, August 23, 2012                      |
| REVISION:    | B, Updated to current spec levels<br>by YLi, May 7, 2020 |

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