

# LL 34 MiniMELF WM



## Description

Littelfuse LL-34 “MiniMELF” style interchangeable glass encapsulated surface mount thermistors are manufactured using super stable NTC chips which are hermetically sealed in a glass package. The result is a device which exhibits excellent long-term reliability and stability even when subjected to severe environmental or thermal conditions. They are well suited for uses where their interchangeability eliminates the necessity for costly individual circuit calibration. Their uniform dimensions make them especially suitable for use with automatic insertion equipment.

## Options

- Non-standard resistance values and tolerances
- Point matched at specified temperatures
- Tape and Reel Packaging

## Dimensions



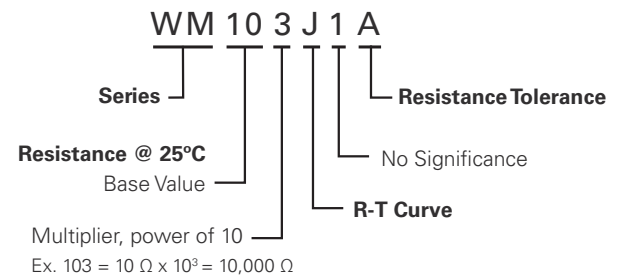
Dimensions shown in inches.

| A                  | B                  | C                  |
|--------------------|--------------------|--------------------|
| 0.135"<br>± 0.012" | 0.019"<br>± 0.005" | 0.060"<br>± 0.005" |

## Features

- High temperature capability to +220°C
- Surface mountable
- Hermetically sealed glass package
- Low cost
- Excellent long-term stability

## Part Numbering System



**Note:** Not all combinations of Part Number codes are available. Contact Littelfuse for details.

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### Specifications

| Part Number | Resistance Ohms @25°C | Accuracy (0 °C to +100 °C) | Temperature Coefficient (% / °C) @ 25°C | Beta (K) 0-50°C | Dissipation Constant, Nominal (mW/°C) | Thermal Time Constant, Max. - Still Air (seconds) | Temperature Rating (°C) |
|-------------|-----------------------|----------------------------|---|-----------------|---------------------------------------|---|-------------------------|
| WM103J1A    | 10000                 | ± 1.0 °C                   | -4.4                                    | 3892            | 2                                     | 8   | -55 to +220             |
| WM103J1B    | 10000                 | ± 1.0 °C                   | -4.4                                    | 3892            | 2                                     | 8   | -55 to +220             |
| WM153J1A    | 15000                 | ± 1.0 °C                   | -4.4                                    | 3892            | 2                                     | 8   | -55 to +220             |
| WM203J1A    | 20000                 | ± 1.0 °C                   | -4.4                                    | 3892            | 2                                     | 8   | -55 to +220             |
| WM503J1A    | 50000                 | ± 1.0 °C                   | -4.4                                    | 3892            | 2                                     | 8   | -55 to +220             |
| WM104J1A    | 100000                | ± 1.0 °C                   | -4.4                                    | 3892            | 2                                     | 8   | -55 to +220             |

### Packaging

| Packaging Option | Packaging Code | Standard Quantity | Standard |
|------------------|----------------|-------------------|----------|
| Tape and Reel    | -TR            | 2500              | EIA-481  |

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