

LL 34 MiniMELF SM



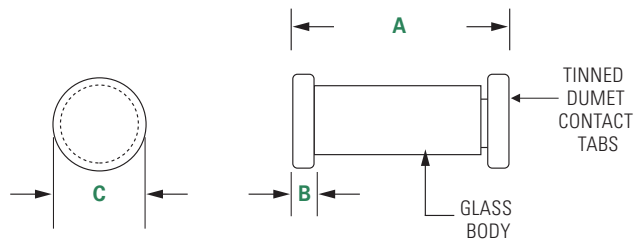
Description

Littelfuse LL-34 “MiniMELF” style 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. 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



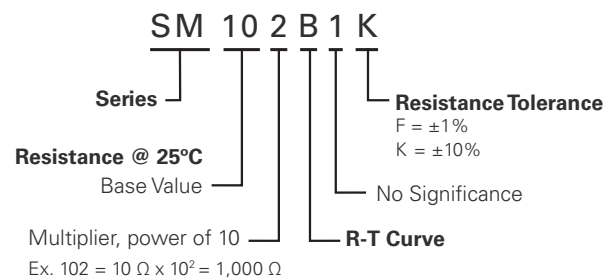
Dimensions shown in inches.

| A | B | C |
|--------------------|--------------------|--------------------|
| 0.135" ± 0.012" | 0.019" ± 0.005" | 0.060" ± 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.

LL 34 MiniMELF SM

Specifications

| Part Number | Resistance Ohms @25°C | *Resistance Tol. ± % @ 25°C | R-T Curve | 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) |
|-------------|-----------------------|-----------------------------|-----------|---------------------------------------|-----------------|---------------------------------------|---------------------------------------------------|-------------------------|
| SM102B1K | 1000 | 10 | B | -3.3 | 2941 | 2 | 8 | -55 to +220 |
| SM102D1K | 1000 | 10 | D2 | - | 3156 | 2 | 8 | -55 to +220 |
| SM102E1K | 1000 | 10 | E | -3.67 | 3263 | 2 | 8 | -55 to +220 |
| SM202F1K | 2000 | 10 | F | -3.86 | 3419 | 2 | 8 | -55 to +220 |
| SM222E1K | 2186 | 10 | E1 | -3.82 | 3320 | 2 | 8 | -55 to +220 |
| SM252B1K | 2500 | 10 | B | -3.31 | 2941 | 2 | 8 | -55 to +220 |
| SM252B4K | 2500 | 10 | B | -3.31 | 2941 | 2 | 8 | -55 to +220 |
| SM103F5K | 10000 | 10 | F | -3.86 | 3419 | 2 | 8 | -55 to +220 |
| SM103G1K | 10000 | 10 | G | -4.04 | 3575 | 2 | 8 | -55 to +220 |
| SM103J1F | 10000 | 1 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM103J1K | 10000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM403J1K | 10000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM472F1K | 10000 | 10 | F | -3.86 | 3419 | 2 | 8 | -55 to +220 |
| SM472G1K | 10000 | 10 | G | -4.03 | 3575 | 2 | 8 | -55 to +220 |
| SM501B1K | 10000 | 10 | B | -3.31 | 2941 | 2 | 8 | -55 to +220 |
| SM153J1K | 15000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM602F1K | 15000 | 10 | F | -3.86 | 3419 | 2 | 8 | -55 to +220 |
| SM203J1K | 20000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM253J1K | 25000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM303J1K | 30000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM104J1F | 100000 | 1 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM104J1K | 100000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |

*Resistance tolerances of ± 1%, 2%, and 5% are available upon request

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|-------------|-----------------------|-----------------------------|-----------|-----------------------------------------|-----------------|---------------------------------------|---------------------------------------------------|-------------------------|
| SM104J1O | 100000 | – | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM104R1K | 100000 | 10 | R | -4.68 | 4140 | 2 | 8 | -55 to +220 |
| SM502F1K | 100000 | 10 | F | -3.86 | 3419 | 2 | 8 | -55 to +220 |
| SM503J1K | 100000 | 10 | J | -4.4 | 3892 | 2 | 8 | -55 to +220 |
| SM504R1K | 100000 | 10 | R | -4.68 | 4140 | 2 | 8 | -55 to +220 |
| SM254R1K | 250000 | 10 | R | -4.68 | 4140 | 2 | 8 | -55 to +220 |
| SM105V3K | 1000000 | 10 | V3 | -4.93 | 4369 | 2 | 8 | -55 to +220 |
| SM105R1K | 1000000 | 10 | R | -4.68 | 4140 | 2 | 8 | -55 to +220 |

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Packaging

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

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