



**THE DATASHEET OF
SM103J1F**



LL 34 MiniMELF SM



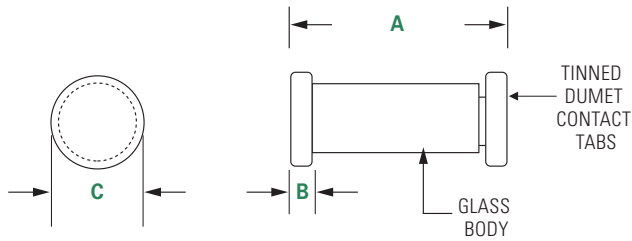
Description

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



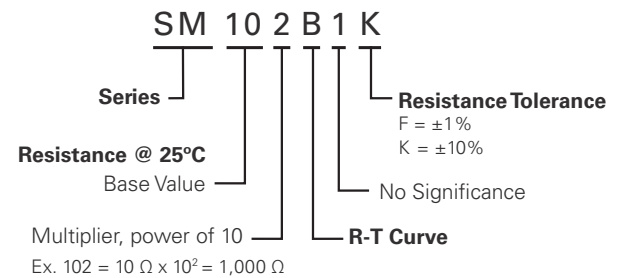
Dimensions shown in inches.

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

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)
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

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

Packaging

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

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at: www.littelfuse.com/disclaimer-electronics

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View SM103J1F on WIN SOURCE](#)

 [Littelfuse Inc. Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management