

Features

 Compliant with AEC-Q200 Rev-C- Stress Test Qualification for Passive Components in Automotive Applications

MF-SM Series - PTC Resettable Fuses

- Surface mount devices
- Fully compatible with current industry standards
- Packaged per EIA 481-2 standard
- RoHS compliant* and halogen free**
- Agency recognition: c 🔊 us 📤
- Patents pending

Electrical Characteristics

	V max.	l max	lhold	l _{trip}	Resis	tance	Max. Time To Trip		Tripped Power Dissipation
Model	Volts	Amps		eres 3 °C		Ohms at 23 °C		AmperesSecondsat 23 °Cat 23 °C	
			Hold	Trip	R Min.	R1 Max.		Max.	Тур.
MF-SM030	60	40	0.30	0.60	0.90	4.80	1.5	3.0	1.7
MF-SM050	60	40	0.50	1.00	0.35	1.40	2.5	4.0	1.7
MF-SM075	30	80	0.75	1.50	0.23	1.00	8.0	0.3	1.7
MF-SM075/60	60	10	0.75	1.50	0.23	1.00	8.0	0.3	1.7
MF-SM100	30	80	1.10	2.20	0.12	0.48	8.0	0.5	1.7
MF-SM100/33	33	40	1.10	2.20	0.12	0.41	8.0	0.5	1.7
MF-SM125	15	100	1.25	2.50	0.07	0.25	8.0	2.0	1.7
MF-SM150	15	100	1.50	3.00	0.06	0.25	8.0	5.0	1.9
MF-SM150/33	33	40	1.50	3.00	0.06	0.23	8.0	5.0	1.9
MF-SM185/33	33	40	1.80	3.60	0.04	0.15	8.0	5.0	1.9
MF-SM200	15	100	2.00	4.00	0.045	0.125	8.0	12.0	1.9
MF-SM250	15	100	2.50	5.00	0.024	0.085	8.0	25.0	1.9
MF-SM260	6	100	2.60	5.20	0.025	0.075	8.0	20.0	1.7
MF-SM300	6	100	3.00	6.00	0.015	0.048	8.0	35.0	1.5

Environmental Characteristics

Operating Temperature Maximum Device Surface Temperature	40 °C to +85 °C	
in Tripped State	125 °C	
Passive Aging	+85 °C, 1000 hours	. ±5 % typical resistance change
Humidity Aging	+85 °C, 85 % R.H. 7 days	±5 % typical resistance change
Thermal Shock	MIL-STD-202F, Method 107G	. ±10 % typical resistance change
	40 °C to +85 °C, 20 cycles	20 % typical resistance change
	MIL-STD-883C, Method 2007.1,	
	Condition A	
Moisture Sensitivity Level (MSL)	Level 1	
ESD Classification - HBM		

Test Procedures And Requirements For Model MF-SM Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23 °C	Rmin $\leq R \leq R1$ max
Time to Trip	At specified current, Vmax, 23 °C	T ≤ max. time to trip (seconds)
	30 min. at Ihold	
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
	Vmax, 48 hours	
Solderability	MIL-STD-202F, Method 208F	95 % min. coverage
UL File Number	E174545	
	http://www.ul.com/ Follow link to Online Cert E174545, or click here	ificates Directory, then enter UL File No.
TÜV Certificate	Certificate Number Available on Request, or	click here

^{*} RoHS Directive 2002/95/EC Jan. 27, 2003 including annex and RoHS Recast 2011/65/EU June 8, 2011.

*Bours considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

Applications

Almost anywhere there is a low voltage power supply and a load to be protected, including:

- Computers & peripherals
- General electronics
- Automotive applications

MF-SM Series - PTC Resettable Fuses

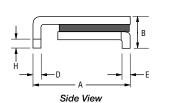
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Product Dimensions

Model	A		в		I	D		Е		F		G	
	Min.	Max.	Max.	Max.	Min.								
MF-SM030	<u>6.73</u> (0.265)	7.98 (0.314)	3.18 (0.125)	<u>5.44</u> (0.214)	0.56 (0.022)	<u>0.71</u> (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	<u>2.41</u> (0.095)	$\frac{0.66}{(0.026)}$	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM050	$\frac{6.73}{(0.265)}$	7.98 (0.314)	<u>3.18</u> (0.125)	<u>5.44</u> (0.214)	<u>0.56</u> (0.022)	<u>0.71</u> (0.028)	<u>0.56</u> (0.022)	<u>0.71</u> (0.028)	<u>2.16</u> (0.085)	<u>2.41</u> (0.095)	$\frac{0.66}{(0.026)}$	$\frac{1.37}{(0.054)}$	$\frac{0.43}{(0.017)}$
MF-SM075	<u>6.73</u> (0.265)	7.98 (0.314)	3.18 (0.125)	<u>5.44</u> (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	<u>2.16</u> (0.085)	2.41 (0.095)	0.66 (0.026)	<u>1.37</u> (0.054)	0.43 (0.017)
MF-SM075/60	<u>6.73</u> (0.265)	7.98 (0.314)	<u>3.18</u> (0.125)	<u>5.44</u> (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	<u>1.37</u> (0.054)	0.43 (0.017)
MF-SM100	<u>6.73</u> (0.265)	<u>7.98</u> (0.314)	<u>3.0</u> (0.118)	<u>5.44</u> (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	$\frac{0.66}{(0.026)}$	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM100/33	<u>6.73</u> (0.265)	<u>7.98</u> (0.314)	<u>3.0</u> (0.118)	<u>5.44</u> (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	2.16 (0.085)	2.41 (0.095)	0.66 (0.026)	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM125	<u>6.73</u> (0.265)	<u>7.98</u> (0.314)	<u>3.0</u> (0.118)	<u>5.44</u> (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	<u>2.16</u> (0.085)	2.41 (0.095)	0.66 (0.026)	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM150	<u>8.00</u> (0.315)	<u>9.50</u> (0.374)	<u>3.0</u> (0.118)	<u>6.71</u> (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	<u>0.71</u> (0.028)	<u>3.68</u> (0.145)	<u>3.94</u> (0.155)	0.66 (0.026)	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM150/33	<u>8.00</u> (0.315)	<u>9.50</u> (0.374)	<u>3.0</u> (0.118)	<u>6.71</u> (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	<u>3.68</u> (0.145)	<u>3.94</u> (0.155)	$\frac{0.66}{(0.026)}$	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM185/33	<u>8.00</u> (0.315)	<u>9.50</u> (0.374)	<u>3.0</u> (0.118)	<u>6.71</u> (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	0.71 (0.028)	<u>3.68</u> (0.145)	<u>3.94</u> (0.155)	0.66 (0.026)	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM200	<u>8.00</u> (0.315)	<u>9.50</u> (0.374)	<u>3.0</u> (0.118)	<u>6.71</u> (0.264)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	<u>0.71</u> (0.028)	<u>3.68</u> (0.145)	<u>3.94</u> (0.155)	0.66 (0.026)	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM250	<u>8.00</u> (0.315)	<u>9.50</u> (0.374)	<u>3.0</u> (0.118)	<u>6.71</u> (0.264)	<u>0.56</u> (0.022)	<u>0.71</u> (0.028)	<u>0.56</u> (0.022)	<u>0.71</u> (0.028)	<u>3.68</u> (0.145)	<u>3.94</u> (0.155)	<u>0.66</u> (0.026)	<u>1.37</u> (0.054)	<u>0.43</u> (0.017)
MF-SM260	<u>6.73</u> (0.265)	7.98 (0.314)	<u>3.0</u> (0.118)	<u>5.44</u> (0.214)	0.56 (0.022)	0.71 (0.028)	0.56 (0.022)	<u>0.71</u> (0.028)	<u>2.16</u> (0.085)	2.41 (0.095)	0.66 (0.026)	$\frac{1.37}{(0.054)}$	0.43 (0.017)
MF-SM300	<u>6.73</u> (0.265)	<u>7.98</u> (0.314)	<u>3.0</u> (0.118)	<u>5.44</u> (0.214)	0.56 (0.022)	<u>0.71</u> (0.028)	0.56 (0.022)	<u>0.71</u> (0.028)	<u>2.16</u> (0.085)	<u>2.41</u> (0.095)	<u>0.66</u> (0.026)	<u>1.37</u> (0.054)	<u>0.43</u> (0.017)

Packaging:

TAPE & REEL: MF-SM030, 050, 075, 075/60, 100, 100/33, 125, 260, 300 = 2000 pcs. per reel; MF-SM150, 150/33, 185/33, 200, 250 = 1500 pcs. per reel.

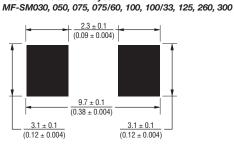


DIMENSIONS: MM (INCHES) Terminal material: Tin-plated brass

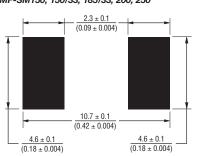


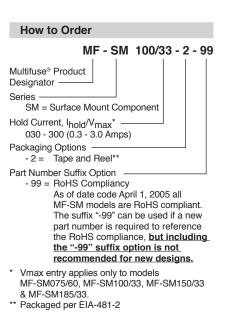
End View

Recommended Pad Layout MF-SM150, 150/33, 185/33, 200, 250



Recommended Pad Layout





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MF-SM Series - PTC Resettable Fuses

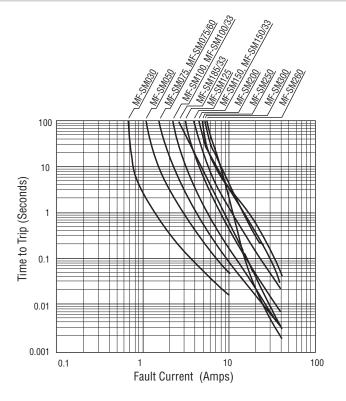
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Thermal Derating Chart - Ihold (Amps)

Model		Ambient Operating Temperature										
	-40 °C	-20 °C	0°C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C			
MF-SM030	0.45	0.40	0.35	0.30	0.25	0.23	0.20	0.17	0.14			
MF-SM050	0.76	0.67	0.59	0.50	0.42	0.38	0.33	0.29	0.23			
MF-SM075	1.11	0.99	0.84	0.75	0.63	0.57	0.49	0.45	0.36			
MF-SM075/60	1.11	0.99	0.84	0.75	0.63	0.57	0.49	0.45	0.36			
MF-SM100	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50			
MF-SM100/33	1.66	1.47	1.29	1.10	0.91	0.83	0.73	0.64	0.50			
MF-SM125	1.89	1.68	1.46	1.25	1.04	0.94	0.83	0.73	0.56			
MF-SM150	2.27	2.01	1.76	1.50	1.25	1.13	0.99	0.87	0.68			
MF-SM150/33	2.27	2.01	1.76	1.50	1.25	1.13	0.99	0.87	0.68			
MF-SM185/33	2.56	2.32	2.08	1.85	1.60	1.44	1.28	1.12	0.88			
MF-SM200	3.02	2.68	2.34	2.00	1.66	1.50	1.32	1.16	0.90			
MF-SM250	3.78	3.35	2.93	2.50	2.08	1.88	1.65	1.45	1.13			
MF-SM260	3.64	3.25	2.91	2.60	2.26	2.08	1.95	1.74	1.48			
MF-SM300	4.13	3.75	3.30	2.87	2.62	2.43	2.25	2.00	1.78			

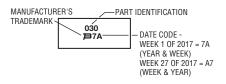
Itrip is approximately two times Ihold.

Typical Time to Trip at 23 °C



Typical Part Marking

Represents total content. Layout may vary.

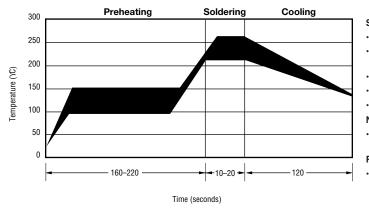


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MF-SM Series - PTC Resettable Fuses

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Solder Reflow Recommendations

Solder reflow

Recommended reflow methods: IR, vapor phase oven, hot air oven.

- Devices are not designed to be wave soldered to the bottom side of the board.
- · Gluing the devices is not recommended.
- Recommended maximum paste thickness is 0.25 mm (.010 inch).

Devices can be cleaned using standard industry methods and solvents.
Note:

 If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

Rework

· A device should not be reworked.

Storage Recommendations

The recommended long term storage conditions for Multifuse® Polymer PTC devices are 40 °C maximum and 70 % RH maximum. All devices should remain in the original sealed packaging prior to use. Devices may not conform with data sheet specifications if these storage recommendations are exceeded. Devices stored in this manner have an indefinite shelf life.

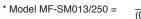
MF-SM, MF-SM/33, MF-SM/60 & MF-SM/250 Series Tape and Reel Specifications 🛛 😑 🔿

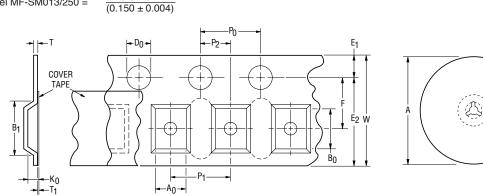
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NOTE: Effective December 1, 2010 (product date code V0), the cover tape was changed to the new 3M" Universal Cover Tape (UCT).

Tape Dimensions	MF-SM030, 050, 075, 100, 125, 260, 300; MF-SM075/60; MF-SM-100/33; MF-SM008/250 per EIA-481-2	MF-SM150, 200, 250; MF-SM-150/33, MF-SM-185/33; MF-SM013/250 per EIA 481-2
W max.	16.3 (0.642)	<u>16.3</u> (0.642)
P ₀	$\frac{(0.042)}{4.0 \pm 0.1}$	$\frac{(0.042)}{4.0 \pm 0.1}$ $\frac{(0.157 \pm 0.004)}{(0.157 \pm 0.004)}$
P ₁	$\frac{8.0 \pm 0.1}{(0.315 \pm 0.004)}$	$\frac{12.0 \pm 0.1}{(0.472 \pm 0.004)}$
P ₂	$\frac{2.0 \pm 0.1}{(0.079 \pm 0.004)}$	$\frac{2.0 \pm 0.1}{(0.079 \pm 0.004)}$
A ₀	$\frac{5.7 \pm 0.1}{(0.224 \pm 0.004)}$	$\frac{6.9 \pm 0.1}{(0.272 \pm 0.004)}$
B ₀	$\frac{8.1 \pm 0.1}{(0.319 \pm 0.004)}$	$\frac{9.6 \pm 0.1}{(0.378 \pm 0.004)}$
B ₁ max.	<u>12.1</u> (0.476)	<u>12.1</u> (0.476)
D ₀	$\frac{1.5 + 0.1/-0.0}{(0.059 + 0.004/-0)}$	$\frac{1.5 + 0.1/-0.0}{(0.059 + 0.004/-0)}$
F	$\frac{7.5 \pm 0.1}{(0.295 + 0.004)}$	$\frac{7.5 \pm 0.1}{(0.295 + 0.004)}$
E ₁	$\frac{1.75 \pm 0.1}{(0.069 \pm 0.004)}$	$\frac{1.75 \pm 0.1}{(0.069 \pm 0.004)}$
E ₂ min.	<u>14.25</u> (0.561)	<u>14.25</u> (0.561)
T max.	0.6 (0.024)	0.6 (0.024)
T ₁ max.	0.1 (0.004)	0.1 (0.004)
к ₀	$\frac{3.4 \pm 0.1}{(0.134 \pm 0.004)}$	$\frac{3.4 \pm 0.1^*}{(0.134 \pm 0.004)^*}$
Leader min.	<u>390</u> (15.35)	<u>390</u> (15.35)
Trailer min.	$\frac{160}{(6.30)}$	<u>160</u> (6.30)
Reel Dimensions		
A max.	360	360

A max.	<u>360</u> (14.17)	<u>360</u> (14.17)
N min.	<u>50</u> (1.97)	<u>50</u> (1.97)
W ₁	$\frac{16.4 + 2.0/-0.0}{(0.646 + 0.079/-0)}$	$\frac{16.4 + 2.0/-0.0}{(0.646 + 0.079/-0)}$
N ₂ max.	<u>22.4</u> (0.882)	<u>22.4</u> (0.882)
* Model ME SM012/050 - 3.8 ± 0.1	(*****)	(0.00-)





DIMENSIONS: $\frac{MM}{(INCHES)}$

++W2(MEASURED AT HUB)

N(HUB DIA.)

-W₁ (MEASURED AT HUB)

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Bourns® Multifuse® PPTC Resettable Fuses

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Application Notice

- Users are responsible for independent and adequate evaluation of Bourns[®] Multifuse[®] Polymer PTC devices in the user's application, including the PPTC device characteristics stated in the applicable data sheet.
- Polymer PTC devices must not be allowed to operate beyond their stated maximum ratings. Operation in excess of such
 maximum ratings could result in damage to the PTC device and possibly lead to electrical arcing and/or fire. Circuits with
 inductance may generate a voltage above the rated voltage of the polymer PTC device and should be thoroughly evaluated
 within the user's application during the PTC selection and qualification process.
- Polymer PTC devices are intended to protect against adverse effects of temporary overcurrent or overtemperature conditions up to rated limits and are not intended to serve as protective devices where overcurrent or overvoltage conditions are expected to be repetitive or prolonged.
- In normal operation, polymer PTC devices experience thermal expansion under fault conditions. Thus, a polymer PTC device must be protected against mechanical stress, and must be given adequate clearance within the user's application to accommodate such thermal expansion. Rigid potting materials or fixed housings or coverings that do not provide adequate clearance should be thoroughly examined and tested by the user, as they may result in the malfunction of polymer PTC devices if the thermal expansion is inhibited.
- Exposure to lubricants, silicon-based oils, solvents, gels, electrolytes, acids, and other related or similar materials may adversely affect the performance of polymer PTC devices.
- Aggressive solvents may adversely affect the performance of polymer PTC devices. Conformal coating, encapsulating, potting, molding, and sealing materials may contain aggressive solvents including but not limited to xylene and toluene, which are known to cause adverse effects on the performance of polymer PTCs. Such aggressive solvents must be thoroughly cured or baked to ensure their complete removal from polymer PTCs to minimize the possible adverse effect on the device.
- Recommended storage conditions should be followed at all times. Such conditions can be found on the applicable data sheet and on the Multifuse[®] Polymer PTC Moisture/Reflow Sensitivity Classification (MSL) note: <u>https://www.bourns.com/docs/RoHS-MSL/msl_mf.pdf</u>

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