

Features

- Standard 2920 footprint
- Swift Time-to-Trip (TTT) for safeguarding against overcurrent events
- Excellent solderability with ENIG terminal
- Symmetric designs and low profile
- RoHS compliant* and halogen free**

- High power rating and high voltage
- Agency recognition:
- TÜV certifications cover IEC 62319-1, IEC 60738-1, and IEC 60730-1:2013, encompassing clause 15, clause 17, and Annex J.

MF-LSMF Series – PTC Resettable Fuses

Electrical Characteristics

Model	V_{max}	I_{max}	I_{hold}	I_{trip}	Resistance		Max. Time to Trip		Tripped Power Dissipation	Agency Recognition		AEC-Q200 Compliant
			at 23 °C		at 23 °C Ohms		at 23 °C		at 23 °C Watts	cUL	TÜV	
	Volts	Amps	Amps		R_{Min}	R_{1Max}^1	Amps	Seconds	Typ.	E174545	R50256634	
NEW!	MF-LSMF030X	60	40	0.30	0.6	0.9	4.8	1.5	3.0	1.5	✓	✓
NEW!	MF-LSMF050X	60	40	0.50	1.0	0.2	1.4	2.5	4.0	1.5	✓	✓
NEW!	MF-LSMF075X	30	40	0.75	1.5	0.15	1.00	8.0	0.3	1.5	✓	✓
NEW!	MF-LSMF075/60X	60	40	0.75	1.5	0.15	1.00	8.0	0.3	1.5	✓	✓
NEW!	MF-LSMF110X	33	40	1.10	2.2	0.07	0.41	8.0	0.5	1.5	✓	✓
NEW!	MF-LSMF110/60X	60	40	1.10	2.2	0.07	0.41	8.0	0.5	2.0	✓	✓
	MF-LSMF125X	15	40	1.25	2.5	0.05	0.25	8.0	2.0	1.5	✓	✓
	MF-LSMF125/33X	33	40	1.25	2.5	0.055	0.25	8.0	2.0	1.5	✓	✓
	MF-LSMF150X	15	40	1.5	3.0	0.05	0.23	8.0	2.0	1.5	✓	✓
	MF-LSMF150/33X	33	40	1.5	3.0	0.05	0.23	8.0	2.0	1.5	✓	✓
	MF-LSMF185X	15	40	1.85	3.7	0.045	0.15	8.0	2.5	1.5	✓	✓
	MF-LSMF185/24X	24	40	1.85	3.7	0.045	0.15	8.0	2.5	1.5	✓	✓
	MF-LSMF185/33X	33	40	1.85	3.7	0.045	0.15	8.0	2.5	1.5	✓	✓
	MF-LSMF200X	15	40	2.0	4.0	0.035	0.125	8.0	5.0	1.5	✓	✓
	MF-LSMF200/24X	24	40	2.0	4.0	0.035	0.125	8.0	5.0	1.5	✓	✓
	MF-LSMF260X	24	40	2.6	5.2	0.020	0.075	8.0	5.0	1.5	✓	✓
	MF-LSMF260/6X	6	40	2.6	5.0	0.020	0.075	8.0	10	1.5	✓	✓
	MF-LSMF260/16X	16	40	2.6	5.2	0.020	0.075	8.0	5.0	1.5	✓	✓
	MF-LSMF300X	6	40	3.0	5.0	0.015	0.048	8.0	15	1.5	✓	✓
	MF-LSMF300/16X	16	40	3.0	5.0	0.015	0.048	8.0	15	1.5	✓	✓
	MF-LSMF300/24X	24	40	3.0	5.2	0.015	0.075	8.0	15	1.5	✓	✓
	MF-LSMF330X	6	40	3.3	5.5	0.010	0.055	8.0	15	2.0	✓	✓
	MF-LSMF330/12X	12	40	3.3	5.5	0.010	0.055	8.0	15	2.0	✓	✓
	MF-LSMF330/16X	16	40	3.3	5.5	0.010	0.055	8.0	15	2.0	✓	✓
	MF-LSMF330/24X	24	40	3.3	5.5	0.010	0.055	8.0	15	2.0	✓	✓
	MF-LSMF400/16X	16	40	4.0	8.0	0.005	0.040	20	4.0	1.5	✓	✓
	MF-LSMF500/16X	16	40	5.0	10.0	0.005	0.025	20	5.0	1.5	✓	✓
	MF-LSMF600/12X	12	50	6.0	12.0	0.004	0.020	30	2.0	2.0	✓	✓

¹ R_{1max} : measured one hour post reflow.

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INVENTORY



SAMPLES



CONTACT



WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.
** Bourns 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.
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Applications

- Low voltage telecom equipment
- Powered ethernet IEEE 802.3af ports
- Automotive electronic control modules (AEC-Q200 compliant models)
- IEEE 1394 ports
- USB for POS and IPC
- Industrial control
- Security systems
- Portable electronics

MF-LSMF Series - PTC Resettable Fuses

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Environmental Characteristics

Item	Condition	Criteria
Operating Temperature	-40 °C to +85 °C	
Recommended Storage	+40 °C max. / 70 % R.H. max.	
Passive Aging	+85 °C, 1000 hours	±5 % typical resistance change
Humidity Aging	+85 °C, 85 % R.H. 1000 hours	±5 % typical resistance change
Thermal Shock	-40 °C to +85 °C, 20 times	±10 % typical resistance change
Solvent Resistance	MIL-STD-202, Method 215	No change (marking still legible)
Vibration	MIL-STD-883C, Method 2007.1 Condition A	No change ($R_{min} < R < R_{1max}$)
Moisture Sensitivity Level (MSL)	See Note	
ESD Classification	Class 6 (per AEC-Q200-2, HBM)	

How to Order

MF - LSMF 185/33X - 2

Multifuse® Product Designator

Series

LSMF = 7451 mm (2920 mils)
Surface Mount Component

Hold Current, I_{hold}

030-600 (0.3 Amps - 6.0 Amps)

Voltage Option

/33 = 33 Volt Rated

X = Multifuse® freeXpansion™ Design

Packaging

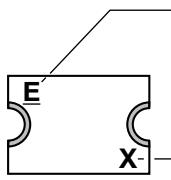
-2 = Tape and Reel
packaged per EIA-481

Test Procedures and Requirements

Item	Test Conditions	Accept/Reject Criteria
Visual/Mechanical	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23 °C	$R_{min} \leq R \leq R_{max}$
Time to Trip	At specified current, V_{max} , 23 °C, still air	$T \leq$ max. time to trip (seconds)
Hold Current	30 min. at I_{hold} , still air	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning
Solderability	245 °C ± 5 °C, 5 seconds	95 % min. coverage

Typical Part Marking

Represents total content. Layout may vary.



PART IDENTIFICATION EXAMPLES:

MF-LSMF030X = 3	MF-LSMF125X = 7	MF-LSMF260X = E	MF-LSMF330/24X = 0
MF-LSMF050X = 4	MF-LSMF125/33X = L	MF-LSMF260/6X = P	MF-LSMF400/16X = K
MF-LSMF075X = 5	MF-LSMF150X = M	MF-LSMF260/16X = E	MF-LSMF500/16X = S
MF-LSMF075/60X = 5	MF-LSMF150/33X = 8	MF-LSMF300X = F	MF-LSMF600/12X = I
MF-LSMF110X = 6	MF-LSMF185X = N	MF-LSMF300/16X = H	
MF-LSMF110/60X = 6	MF-LSMF185/24X = 9	MF-LSMF300/24X = J	
	MF-LSMF185/33X = 9	MF-LSMF330X = X	
	MF-LSMF200X = A	MF-LSMF330/12X = Q	
	MF-LSMF200/24X = A	MF-LSMF330/16X = Q	

BI-WEEKLY DATE CODE:

WEEKS 47-48 = X

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MF-LSMF Series - PTC Resettable Fuses

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Thermal Derating Chart - I_{hold} (Amps)

Model	Ambient Operating Temperature								
	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
MF-LSMF030X	0.44	0.40	0.35	0.30	0.25	0.23	0.20	0.17	0.10
MF-LSMF050X	0.73	0.67	0.59	0.50	0.42	0.38	0.33	0.29	0.23
MF-LSMF075X	1.10	1.01	0.89	0.75	0.63	0.56	0.50	0.44	0.34
MF-LSMF075/60X	1.10	1.01	0.89	0.75	0.63	0.56	0.50	0.44	0.30
MF-LSMF110X	1.61	1.47	1.30	1.10	0.92	0.83	0.73	0.64	0.50
MF-LSMF110/60X	1.61	1.47	1.30	1.10	0.92	0.83	0.73	0.64	0.50
MF-LSMF125X	1.83	1.68	1.48	1.25	1.05	0.94	0.83	0.73	0.56
MF-LSMF125/33X	1.83	1.68	1.48	1.25	1.05	0.94	0.83	0.73	0.56
MF-LSMF150X	2.19	2.01	1.77	1.50	1.26	1.13	0.99	0.87	0.68
MF-LSMF150/33X	2.19	2.01	1.77	1.50	1.26	1.13	0.99	0.87	0.68
MF-LSMF185X	2.70	2.48	2.18	1.85	1.55	1.39	1.22	1.07	0.83
MF-LSMF185/24X	2.80	2.47	2.17	1.85	1.54	1.39	1.22	1.07	0.85
MF-LSMF185/33X	2.80	2.47	2.17	1.85	1.54	1.39	1.22	1.07	0.85
MF-LSMF200X	2.92	2.68	2.36	2.00	1.68	1.50	1.32	1.16	0.90
MF-LSMF200/24X	2.92	2.68	2.36	2.00	1.68	1.50	1.32	1.16	0.90
MF-LSMF260X	3.75	3.35	3.00	2.60	2.35	2.15	2.05	1.80	1.30
MF-LSMF260/6X	3.80	3.48	3.07	2.60	2.18	1.95	1.72	1.51	1.17
MF-LSMF260/16X	3.75	3.35	3.00	2.60	2.35	2.15	2.05	1.80	1.30
MF-LSMF300X	4.53	4.02	3.51	3.00	2.52	2.26	1.99	1.75	1.34
MF-LSMF300/16X	4.38	4.02	3.54	3.00	2.52	2.25	1.98	1.74	1.35
MF-LSMF300/24X	4.00	3.55	3.20	3.00	2.50	2.25	2.15	1.85	1.50
MF-LSMF330X	4.82	4.42	3.89	3.30	2.77	2.48	2.18	1.91	1.49
MF-LSMF330/12X	4.82	4.42	3.89	3.30	2.77	2.48	2.18	1.91	1.49
MF-LSMF330/16X	4.82	4.42	3.89	3.30	2.77	2.48	2.18	1.91	1.49
MF-LSMF330/24X	4.82	4.42	3.89	3.30	2.77	2.48	2.18	1.91	1.49
MF-LSMF400/16X	5.84	5.36	4.72	4.00	3.36	3.00	2.64	2.32	1.80
MF-LSMF500/16X	7.30	6.70	5.90	5.00	4.20	3.75	3.30	2.90	2.25
MF-LSMF600/12X	8.76	8.04	7.08	6.00	5.04	4.50	3.96	3.48	2.70

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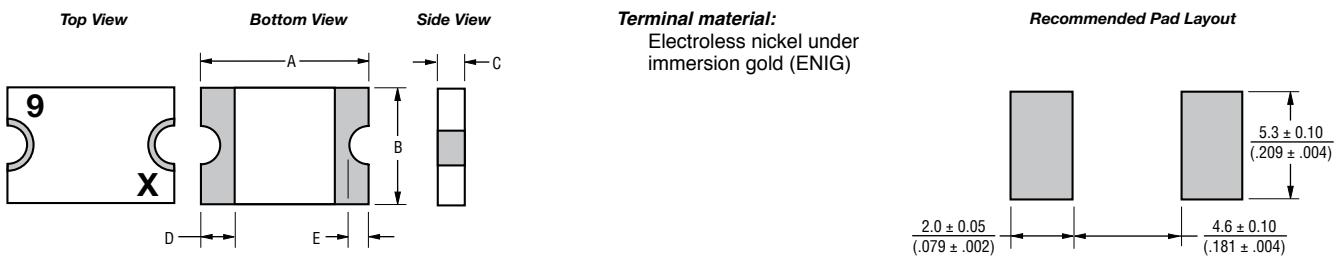
MF-LSMF Series - PTC Resettable Fuses

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Product Dimensions

Model	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
MF-LSMF030X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.25 (0.049)				
MF-LSMF050X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.25 (0.049)				
MF-LSMF075X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				
MF-LSMF075/60X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.70 (0.067)				
MF-LSMF110X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				
MF-LSMF110/60X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.70 (0.067)				
MF-LSMF125X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				
MF-LSMF125/33X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF150X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)	0.30 (0.012)	2.50 (0.098)	0.25 (.010)	2.00 (.079)
MF-LSMF150/33X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF185X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				
MF-LSMF185/24X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF185/33X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF200X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF200/24X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF260X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF260/6X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				

DIMENSIONS: MM
(INCHES)



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MF-LSMF Series - PTC Resettable Fuses

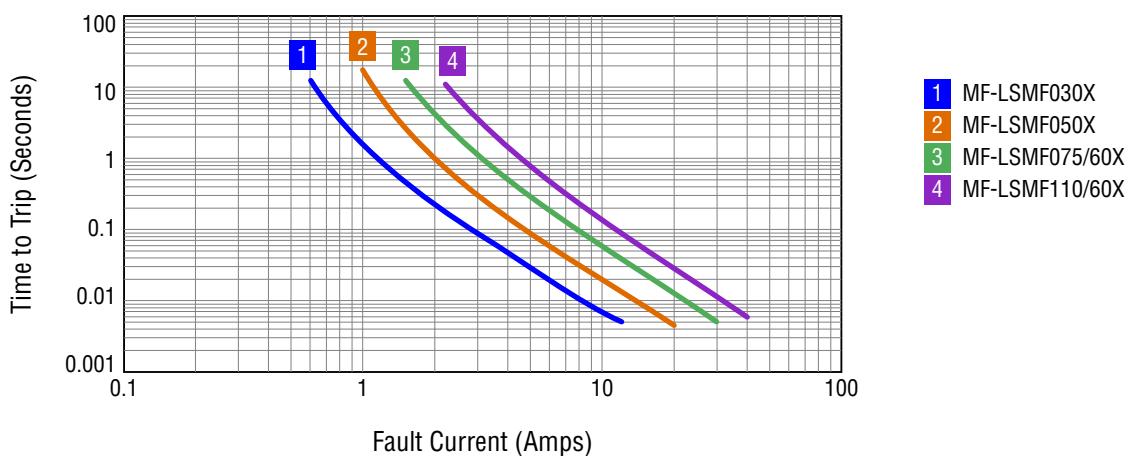
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Product Dimensions (continued)

Model	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
MF-LSMF260/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)	0.30 (0.012)	2.50 (0.098)	0.25 (.010)	2.00 (.079)
MF-LSMF300X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				
MF-LSMF300/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF300/24X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF330X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.35 (0.014)	0.85 (0.033)				
MF-LSMF330/12X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF330/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF330/24X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF400/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF500/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				
MF-LSMF600/12X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	0.75 (0.030)	1.60 (0.063)				

DIMENSIONS: MM
(INCHES)

Typical Time to Trip at 23 °C



Specifications are subject to change without notice.

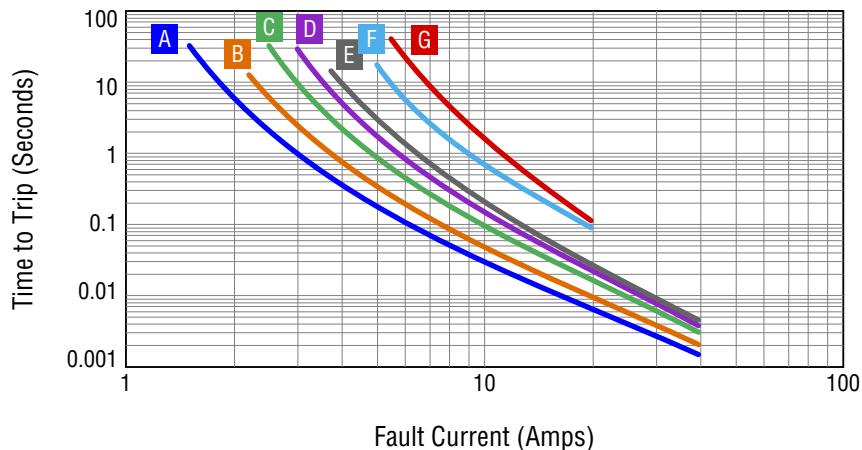
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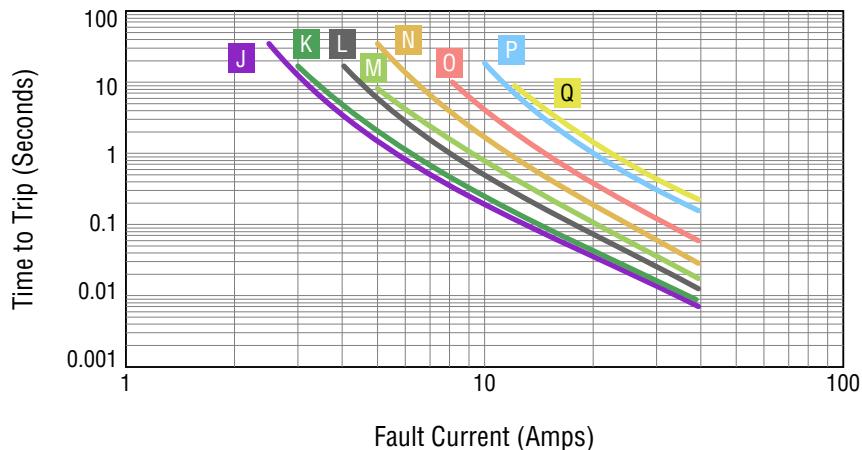
MF-LSMF Series - PTC Resettable Fuses

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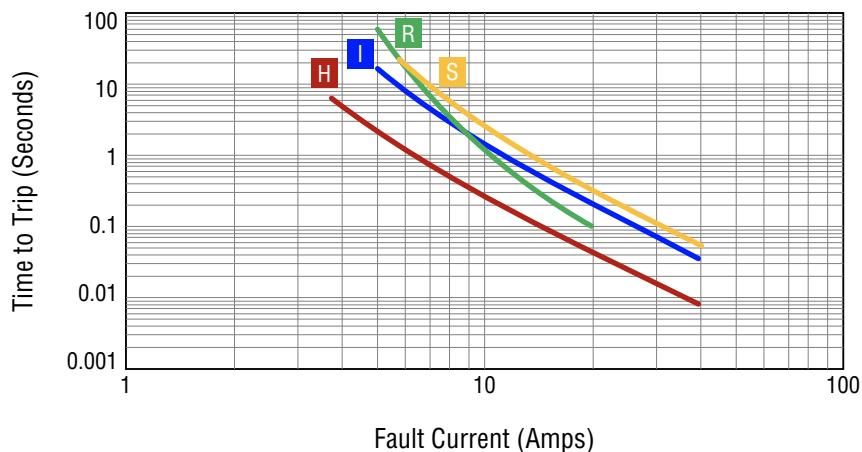
Typical Time to Trip at 23 °C (continued)



A	MF-LSMF075X
B	MF-LSMF110X
C	MF-LSMF125X
D	MF-LSMF150X
E	MF-LSMF185X
F	MF-LSMF260/6X
G	MF-LSMF330X



J	MF-LSMF125/33X
K	MF-LSMF150/33X
L	MF-LSMF200X, MF-LSMF200/24X
M	MF-LSMF260X, MF-LSMF260/16X
N	MF-LSMF300/16X
O	MF-LSMF400/16X
P	MF-LSMF500/16X
Q	MF-LSMF600/12X



H	MF-LSMF185/24X, MF-LSMF185/33X
I	MF-LSMF300/24X
R	MF-LSMF300X
S	MF-LSMF330/12X, MF-LSMF330/16X, MF-LSMF330/24X

The Time to Trip curves represent typical performance of a device in a simulated application environment. Actual performance in specific customer applications may differ from these values due to the influence of other variables.

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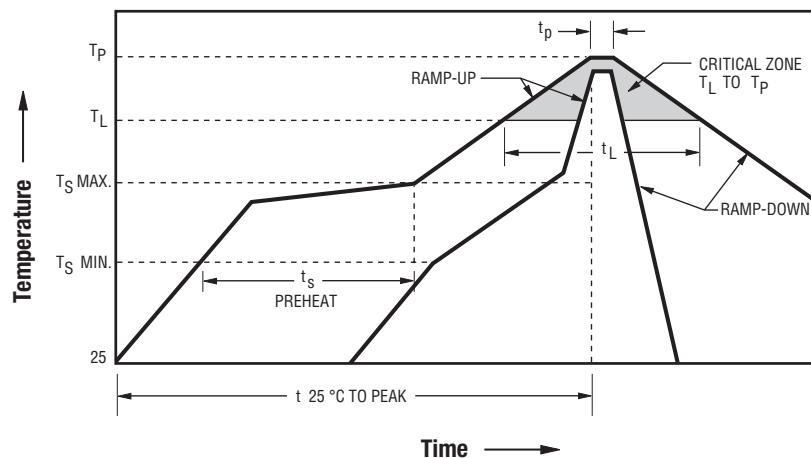
MF-LSMF Series - PTC Resettable Fuses

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Packaging Quantity

Model	Unit Quantity (pcs.)	Unit
MF-LSMF030X		
MF-LSMF050X		
MF-LSMF075/60X		
MF-LSMF110/60X		
MF-LSMF125/33X		
MF-LSMF150/33X		
MF-LSMF185/24X		
MF-LSMF185/33X	4000	Reel
MF-LSMF200X		
MF-LSMF200/24X		
MF-LSMF260X		
MF-LSMF260/16X		
MF-LSMF300X		
MF-LSMF300/16X		
MF-LSMF330/12X		
MF-LSMF330/16X		
MF-LSMF330/24X		
MF-LSMF400/16X		
MF-LSMF500/16X		
MF-LSMF600/12X		
MF-LSMF300/24X		
MF-LSMF150X	6000	Reel
MF-LSMF185X		
MF-LSMF260/6X		
MF-LSMF300X		
MF-LSMF330X		

Solder Reflow Recommendations



Notes:

- MF-LSMF models are intended for reflow soldering (including but not limited to heating plate, hot air, IR, nitrogen, and vapor phase).
- Wave soldering is permissible only if the device is on the top of the PCB, opposite the heat source.
- Hand soldering is not recommended for these devices.
- All temperatures refer to the topside of the device, measured on the device body surface.
- If reflow temperatures exceed the recommended profile, devices may not meet the published specifications.
- Compatible with Pb and Pb-free solder reflow profiles.
- Excess solder may cause a short circuit.
- Please refer to the [Multifuse® Polymer PTC Resettable Fuse Soldering Recommendations](#) document for more details.

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (T_s max to T_p)	3 °C / second max.
PREHEAT:	
Temperature Min. (T_s min)	150 °C
Temperature Max. (T_s max)	200 °C
Time (T_s min to T_s max) (ts)	60~180 seconds
TIME MAINTAINED ABOVE:	
Temperature (T_L)	217 °C
Time (t_L)	60~150 seconds
Peak Temperature (T_p)	260 °C
Time within 5 °C of Actual Peak Temperature (t_p)	20~40 seconds
Ramp-Down Rate	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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MF-LSMF Series Tape and Reel Specifications

BOURNS®

MF-LSMF075X, MF-LSMF110/X,
MF-LSMF125X, MF-LSMF150X,
MF-LSMF185X, MF-LSMF260/6X,
MF-LSMF300X & MF-LSMF330X

MF-LSMF030X, MF-LSMF050X, MF-LSMF075/60X,
MF-LSMF110/60X, MF-LSMF125/33X, MF-LSMF150/33X,
MF-LSMF185/24X, MF-LSMF185/33X, MF-LSMF200X,
MF-LSMF200/24X, MF-LSMF260X, MF-LSMF260/16X,
MF-LSMF300/16X, MF-LSMF300/24X, MF-LSMF330/12X,
MF-LSMF330/16X, MF-LSMF330/24X, MF-LSMF400/16X,
MF-LSMF500/16X & MF-LSMF600/12X

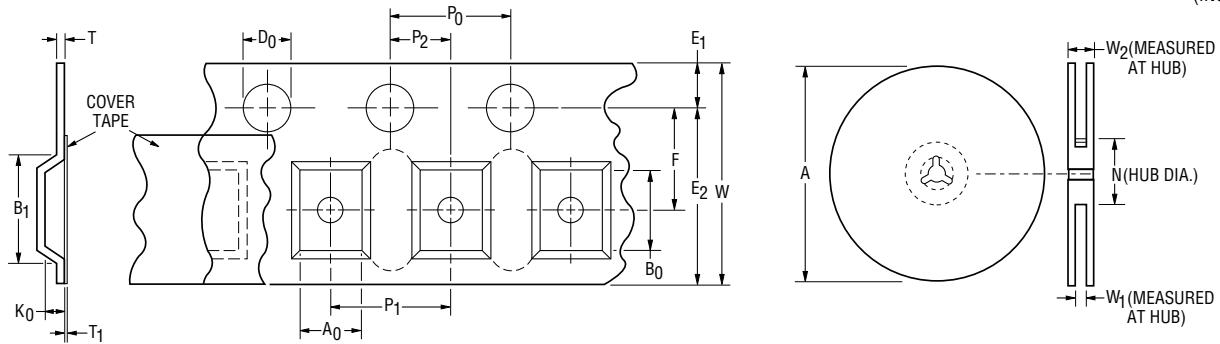
Tape Dimensions per EIA 481

W	16.0 ± 0.30 (0.630 ± 0.012)	16.0 ± 0.30 (0.630 ± 0.012)
P ₀	4.0 ± 0.10 (0.157 ± 0.004)	4.0 ± 0.10 (0.157 ± 0.004)
10 P ₀	40 ± 0.20 (1.575 ± 0.008)	40 ± 0.20 (1.575 ± 0.008)
P ₁	8.0 ± 0.10 (0.315 ± 0.004)	8.0 ± 0.10 (0.315 ± 0.004)
P ₂	2.0 ± 0.10 (0.079 ± 0.004)	2.0 ± 0.10 (0.079 ± 0.004)
A ₀	5.74 ± 0.10 (0.226 ± 0.004)	5.70 ± 0.10 (0.224 ± 0.004)
B ₀	8.02 ± 0.10 (0.316 ± 0.004)	8.10 ± 0.10 (0.319 ± 0.004)
B ₁ max.	12.1 (0.476)	12.1 (0.476)
D ₀	$1.5 +0.10/-0$ (0.059 +0.004/-0)	$1.5 +0.10/-0$ (0.059 +0.004/-0)
F	7.5 ± 0.10 (0.295 ± 0.004)	7.5 ± 0.10 (0.295 ± 0.004)
E ₁	1.75 ± 0.10 (0.069 ± 0.004)	1.75 ± 0.10 (0.069 ± 0.004)
E ₂ min.	14.25 (0.561)	14.25 (0.561)
T max.	0.6 (0.024)	0.6 (0.024)
T ₁ max	0.1 (0.004)	0.1 (0.004)
K ₀	0.91 ± 0.10 (0.036 ± 0.004)	1.70 ± 0.10 (0.067 ± 0.004)
Leader min.	390 (15.35)	390 (15.35)
Trailer min.	160 (6.30)	160 (6.30)

Reel Dimensions

A max.	331 (13.03)	331 (13.03)
N min.	50 (1.97)	50 (1.97)
W ₁	$16.4 +2.0/-0$ (0.646 + 0.079/-0)	$16.4 +2.0/-0$ (0.646 + 0.079/-0)
W ₂ max.	22.4 (0.882)	22.4 (0.882)

DIMENSIONS: MM
(INCHES)



MF-LSMF SERIES, REV. N, 1/24

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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:
https://www.bourns.com/docs/RoHS-MSL/msl_mf.pdf

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