

Features

- High power ratings
- Low profile
- Compatible with Pb and Pb-free solder reflow profiles
- RoHS compliant* and halogen free**
- Surface mount packaging for automated assembly
- Agency recognition: c¶us 🚣





■ Standard 7451 mm (2920 mils) footprint

MF-LSMF Series – PTC Resettable Fuses

Electrical Characteristics

V _{max}		I _{max}	l _{hold}	I _{trip}	Resis	stance		. Time Trip	Tripped Power Dissipation		gency ognition
Model			at 2	3 °C	at 23 °C Ohms		at 2	at 23 °C		cUL	ΤÜV
	Volts	Amps	An	nps	R _{Min}	R _{1Max}	Amps	Seconds	Тур.	E174545	R50256634
MF-LSMF075X	30	40	0.75	1.5	0.15	1.00	8.0	0.3	1.5	1	1
MF-LSMF110X	33	40	1.1	2.2	0.07	0.41	8.0	0.5	1.5	1	1
MF-LSMF125X	15	40	1.25	2.5	0.05	0.25	8.0	2.0	1.5	1	✓
MF-LSMF125/33X	33	40	1.25	2.5	0.055	0.25	8.0	2.0	1.5	1	✓
MF-LSMF150X	15	40	1.5	3.0	0.05	0.23	8.0	2.0	1.5	1	1
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	1	1
MF-LSMF185/24X	24	40	1.85	3.7	0.045	0.15	8.0	2.5	1.5	1	1
MF-LSMF185/33X	33	40	1.85	3.7	0.045	0.15	8.0	2.5	1.5	1	1
MF-LSMF200X	15	40	2.0	4.0	0.035	0.125	8.0	5.0	1.5	1	1
MF-LSMF200/24X	24	40	2.0	4.0	0.035	0.125	8.0	5.0	1.5	1	1
MF-LSMF260X	24	40	2.6	5.2	0.020	0.075	8.0	5.0	1.5	1	1
MF-LSMF260/6X	6	40	2.6	5.0	0.020	0.075	8.0	10	1.5	1	1
MF-LSMF260/16X	16	40	2.6	5.2	0.020	0.075	8.0	5.0	1.5	1	1
MF-LSMF300X	6	40	3.0	5.0	0.015	0.048	8.0	15	1.5	1	1
MF-LSMF300/16X	16	40	3.0	5.0	0.015	0.048	8.0	15	1.5	1	1
MF-LSMF300/24X	24	40	3.0	5.2	0.015	0.075	8.0	15	1.5	1	1
MF-LSMF330X	6	40	3.3	5.5	0.010	0.055	8.0	15	2.0	1	1
MF-LSMF330/12X	12	40	3.3	5.5	0.010	0.055	8.0	15	2.0	1	√
MF-LSMF330/16X	16	40	3.3	5.5	0.010	0.055	8.0	15	2.0	1	/
MF-LSMF330/24X	24	40	3.3	5.5	0.010	0.055	8.0	15	2.0	1	/
MF-LSMF400/16X	16	40	4.0	8.0	0.005	0.040	20	4.0	1.5	1	/
MF-LSMF500/16X	16	40	5.0	10.0	0.005	0.025	20	5.0	1.5	1	/
MF-LSMF600/12X	12	50	6.0	12.0	0.004	0.020	30	2.0	2.0	1	1

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)	

Additional Information

Click these links for more information:











PRODUCT TECHNICAL INVENTORY SAMPLES SELECTOR LIBRARY



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 (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (CI) content is 1500 ppm or less.

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf

Applications

- Industrial controls
- IEEE ports
- Portable electronics

MF-LSMF Series - PTC Resettable Fuses

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	$R_{min} \le R \le R_{max}$
Time to Trip	At specified current, V _{max} , 23 °C, still air	T ≤ 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

Product Dimensions

Model	Α		A B C		ı	3		0	D		E	
wodei	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.		
MF-LSMF075X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.35</u> (0.014)	<u>0.85</u> (0.033)						
MF-LSMF110X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.35</u> (0.014)	<u>0.85</u> (0.033)						
MF-LSMF125X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.35</u> (0.014)	<u>0.85</u> (0.033)						
MF-LSMF125/33X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF150X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.35</u> (0.014)	0.85 (0.033)						
MF-LSMF150/33X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF185X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.35</u> (0.014)	<u>0.85</u> (0.033)						
MF-LSMF185/24X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (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)	<u>0.75</u> (0.030)	1.60 (0.063)	<u>0.30</u> (0.012)	2.50 (0.098)	<u>0.25</u> (.010)	2.00 (.079)		
MF-LSMF200X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF200/24X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF260X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF260/6X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	5.44 (0.214)	<u>0.35</u> (0.014)	<u>0.85</u> (0.033)						
MF-LSMF260/16X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF300X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	5.44 (0.214)	<u>0.35</u> (0.014)	<u>0.85</u> (0.033)						
MF-LSMF300/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						
MF-LSMF300/24X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	5.44 (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)						

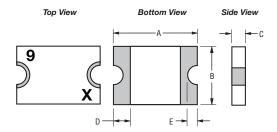
MF-LSMF Series - PTC Resettable Fuses

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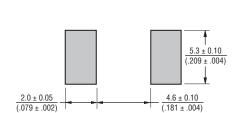
Product Dimensions (continued)

Model	Α		E	3)	E	E
Wodei	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
MF-LSMF330X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	0.35 (0.014)	<u>0.85</u> (0.033)				
MF-LSMF330/12X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)				
MF-LSMF330/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)				
MF-LSMF330/24X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)	<u>0.30</u> (0.012)	2.50 (0.098)	<u>0.25</u> (.010)	2.00 (.079)
MF-LSMF400/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)				
MF-LSMF500/16X	6.73 (0.265)	7.98 (0.314)	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)				
MF-LSMF600/12X	6.73 (0.265)	$\frac{7.98}{(0.314)}$	4.80 (0.189)	<u>5.44</u> (0.214)	<u>0.75</u> (0.030)	1.60 (0.063)				

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



Terminal material: Electroless Ni under immersion Au

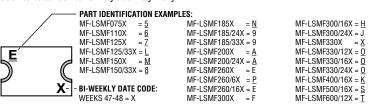


Recommended Pad Layout

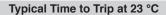
MF - LSMF 185/33X - 2 Multifuse® Product Designator Series LSMF = 7451 mm (2920 mils) Surface Mount Component Hold Current, Ihold 0.75-600 (0.75 Amps - 6.0 Amps) Voltage Option /33 = 33 Volt Rated X = Multifuse® freeXpansion™ Design Packaging -2 = Tape and Reel packaged per EIA-481

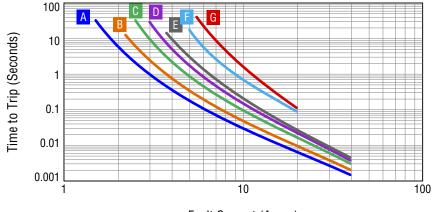
Typical Part Marking

Represents total content. Layout may vary.



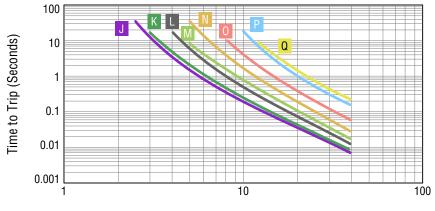
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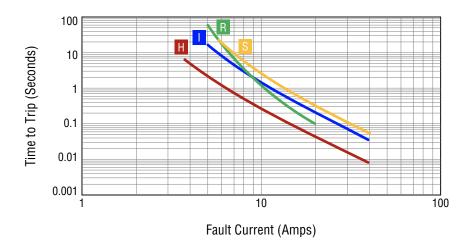
- A MF-LSMF075X
- B MF-LSMF110X
- C MF-LSMF125X
- MF-LSMF150X
- E MF-LSMF185X
 - MF-LSMF260/6X
- MF-LSMF330X

Fault Current (Amps)



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

Fault Current (Amps)



- H MF-LSMF185/24X, MF-LSMF185/33X
- MF-LSMF300/24X
- R MF-LSMF300X
- 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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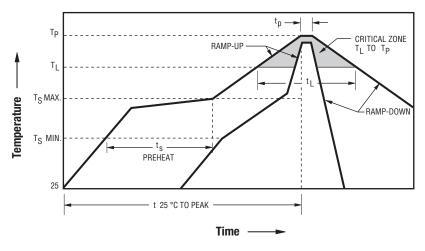
Thermal Derating Chart - Ihold (Amps)

	Ambient Operating Temperature								
Model	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
MF-LSMF075X	1.10	1.01	0.89	0.75	0.63	0.56	0.50	0.44	0.34
MF-LSMF110X	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	3.30	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

Packaging Quantity

	Model		Unit Quantity (pcs.)	Unit
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	4000	Reel
MF-LSMF075X MF-LSMF110X MF-LSMF125X	MF-LSMF150X MF-LSMF185X MF-LSMF260/6X	MF-LSMF300X MF-LSMF330X	6000	Reel

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 <u>Multifuse® Polymer PTC Resettable</u>
 <u>Fuse Soldering Recommendations</u> document for more details.

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate (Ts _{max} to T _p)	3 °C / second max.
PREHEAT:	
Temperature Min. (Ts _{min})	150 °C
Temperature Max. (Ts _{max})	200 °C
Time (Ts _{min} to Ts _{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 (tp)	20~40 seconds
Ramp-Down Rate	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

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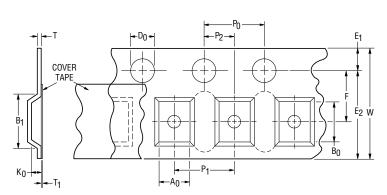
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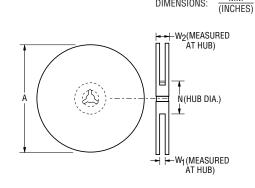
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MF-LSMF Series Tape and Reel Specifications

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

Tape Dimensions per EIA 481	MF-LSMF300X & MF-LSMF330X	& MF-LSMF600/12X		
W	$\frac{16.0 \pm 0.30}{(0.630 \pm 0.012)}$	$\frac{16.0 \pm 0.30}{(0.630 \pm 0.012)}$		
P ₀	$\frac{4.0 \pm 0.10}{(0.157 \pm 0.004)}$	$\frac{4.0 \pm 0.10}{(0.157 \pm 0.004)}$		
10 P ₀	$\frac{40 \pm 0.20}{(1.575 \pm 0.008)}$	$\frac{40 \pm 0.20}{(1.575 \pm 0.008)}$		
<u>P</u> ₁	$\frac{8.0 \pm 0.10}{(0.315 \pm 0.004)}$	$\frac{8.0 \pm 0.10}{(0.315 \pm 0.004)}$		
P ₂	$\frac{2.0 \pm 0.10}{(0.079 \pm 0.004)}$	$\frac{2.0 \pm 0.10}{(0.079 \pm 0.004)}$		
A ₀	$\frac{5.74 \pm 0.10}{(0.226 \pm 0.004)}$	$\frac{5.70 \pm 0.10}{(0.224 \pm 0.004)}$		
В ₀	$\frac{8.02 \pm 0.10}{(0.316 \pm 0.004)}$	$\frac{8.10 \pm 0.10}{(0.319 \pm 0.004)}$		
B ₁ max.	<u>12.1</u> (0.476)	<u>12.1</u> (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	$\frac{7.5 \pm 0.10}{(0.295 \pm 0.004)}$	$\frac{7.5 \pm 0.10}{(0.295 \pm 0.004)}$		
E ₁	$\frac{1.75 \pm 0.10}{(0.069 \pm 0.004)}$	1.75 ± 0.10 (0.069 ± 0.004)		
E ₂ min.	14.25 (0.561)	14.25 (0.561)		
T max.	$\frac{0.6}{(0.024)}$			
T ₁ max	<u>0.1</u> (0.004)	<u>0.1</u> (0.004)		
К ₀	$\frac{0.91 \pm 0.10}{(0.036 \pm 0.004)}$	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.	<u>22.4</u> (0.882)	<u>22.4</u> (0.882)		





MM

DIMENSIONS:

MF-LSMF SERIES, REV. J, 03/22

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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