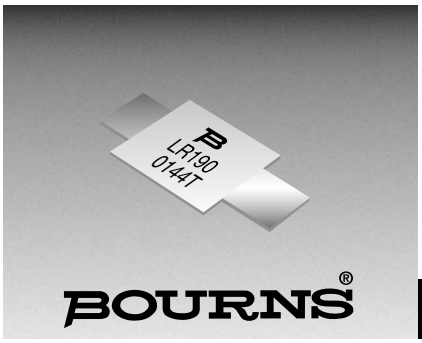


Features

- Axial leaded
- Fully compatible with current industry standards
- Weldable nickel terminals
- Very low internal resistance
- Operating currents to 7.3 Amps
- Available in lead-free version
- Agency recognition:

Applications

- Any application that requires protection at low resistances
- Rechargeable battery packs
- Cellular phones
- Laptop computers

MF-LR Series - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max. Amps	I_{hold}	I_{trip}	Initial Resistance		1 Hour (R_1) Post-Trip Resistance	Max. Time To Trip		Tripped Power Dissipation
			Amperes At 23°C		Ohms At 23°C		Ohms At 23°C	Amperes At 23°C	Seconds At 23°C	Watts At 23°C
			Hold	Trip	Min.	Max.	Max.			
MF-LR190	15	100	1.90	3.90	0.039	0.072	0.102	9.5	5.0	1.2
MF-LR190S	15	100	1.90	3.90	0.039	0.072	0.102	9.5	5.0	1.2
MF-LR260	15	100	2.60	5.80	0.020	0.042	0.063	13.0	5.0	1.3
MF-LR260S	15	100	2.60	5.80	0.020	0.042	0.063	13.0	5.0	2.5
MF-LR380	15	100	3.80	8.30	0.013	0.026	0.037	19.0	5.0	2.5
MF-LR450	10	100	4.50	8.90	0.011	0.020	0.028	22.5	5.0	2.5
MF-LR550	10	100	5.50	10.50	0.009	0.019	0.022	27.5	5.0	2.8
MF-LR600	10	100	6.00	11.70	0.007	0.014	0.016	30.0	5.0	2.8
MF-LR730	10	100	7.3	14.1	0.006	0.012	0.015	30.0	5.0	3.3

Environmental Characteristics

Operating/Storage Temperature .....-40°C to +85°C
Maximum Device Surface Temperature
in Tripped State .....125°C
Passive Aging.....+70°C, 1000 hours .....±10% typical resistance change
Humidity Aging.....+85°C, 85% R.H. 7 days .....±10% typical resistance change
Vibration .....MIL-STD-883C, Condition A .....No change

Test Procedures And Requirements For Model MF-LR Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per MF physical description
Resistance	In still air @ 23°C	Rmin ≤ R ≤ Rmax
Time to Trip	At specified current, Vmax, 23°C	T ≤ max. time to trip (seconds)
Hold Current	30 min. at Ihold	No trip
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
Trip Endurance	Vmax, 48 hours	No arcing or burning

UL File Number .....E 174545S
CSA File Number .....CA 110338
TÜV File Number R2057213

Thermal Derating Chart - I_{hold} / I_{trip} (Amps)

Model	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
MF-LR190	2.8 / 5.7	2.5 / 5.1	2.3 / 4.7	1.9 / 3.9	1.6 / 3.3	1.5 / 3.1	1.4 / 2.9	1.2 / 2.5	1.0 / 2.1
MF-LR190S	2.8 / 5.7	2.5 / 5.1	2.3 / 4.7	1.9 / 3.9	1.6 / 3.3	1.5 / 3.1	1.4 / 2.9	1.2 / 2.5	1.0 / 2.1
MF-LR260	3.8 / 8.5	3.4 / 7.6	3.1 / 6.9	2.6 / 5.8	2.2 / 4.9	2.0 / 4.5	1.9 / 4.2	1.7 / 3.8	1.4 / 3.1
MF-LR260S	3.8 / 8.5	3.4 / 7.6	3.1 / 6.9	2.6 / 5.8	2.2 / 4.9	2.0 / 4.5	1.9 / 4.2	1.7 / 3.8	1.4 / 3.1
MF-LR380	5.5 / 12.0	4.9 / 10.7	4.4 / 9.6	3.8 / 8.3	3.3 / 7.2	3.0 / 6.6	2.8 / 6.1	2.5 / 5.5	2.1 / 4.6
MF-LR450	6.5 / 12.9	5.8 / 11.5	5.3 / 10.5	4.5 / 8.9	3.9 / 7.7	3.6 / 7.1	3.3 / 6.5	2.9 / 5.7	2.5 / 4.9
MF-LR550	8.0 / 15.3	7.1 / 13.6	6.2 / 11.8	5.5 / 10.5	4.7 / 9.0	4.3 / 8.2	4.0 / 7.6	3.6 / 6.9	3.0 / 5.7
MF-LR600	8.7 / 17.0	7.8 / 15.2	7.1 / 13.8	6.0 / 11.7	5.2 / 10.1	4.7 / 9.2	4.4 / 8.6	3.9 / 7.6	3.3 / 6.4
MF-LR730	10.6 / 20.5	9.5 / 18.3	8.6 / 16.6	7.3 / 14.1	6.3 / 12.2	5.7 / 11.0	5.4 / 10.4	4.7 / 9.1	4.0 / 7.7

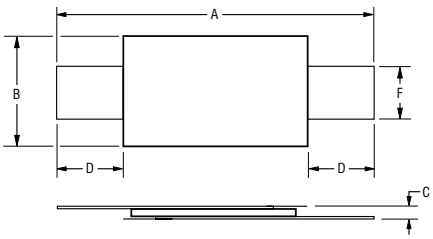
Product Dimensions

Model	A		B		C		D		F		Pkg. Style
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
MF-LR190	19.9 (0.783)	22.1 (0.870)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	5.5 (0.217)	7.5 (0.295)	3.9 (0.154)	4.1 (0.161)	Std.
MF-LR190S	19.9 (0.783)	22.1 (0.870)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	5.5 (0.217)	7.5 (0.295)	3.9 (0.154)	4.1 (0.161)	S
MF-LR260	20.9 (0.823)	23.1 (0.909)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	3.9 (0.154)	4.1 (0.161)	Std.
MF-LR260S	20.9 (0.823)	23.1 (0.909)	4.9 (0.193)	5.2 (0.205)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	3.9 (0.154)	4.1 (0.161)	S
MF-LR380	24.0 (0.945)	26.0 (1.024)	6.9 (0.272)	7.5 (0.295)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	4.9 (0.193)	5.1 (0.201)	Std.
MF-LR450	24.0 (0.945)	26.0 (1.024)	9.9 (0.390)	10.5 (0.414)	0.6 (0.024)	1.0 (0.039)	5.3 (0.209)	6.7 (0.264)	5.9 (0.232)	6.1 (0.240)	Std.
MF-LR550	35.0 (1.378)	37.0 (1.457)	6.9 (0.272)	7.5 (0.295)	0.6 (0.024)	1.0 (0.039)	5.3 (0.209)	6.7 (0.264)	4.9 (0.193)	5.1 (0.201)	Std.
MF-LR600	24.0 (0.945)	26.0 (1.024)	13.9 (0.548)	14.5 (0.571)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	5.9 (0.232)	6.1 (0.240)	Std.
MF-LR730	26.0 (1.024)	29.1 (1.146)	13.9 (0.548)	14.5 (0.571)	0.6 (0.024)	1.0 (0.039)	4.1 (0.161)	5.5 (0.217)	5.9 (0.232)	6.1 (0.240)	Std.

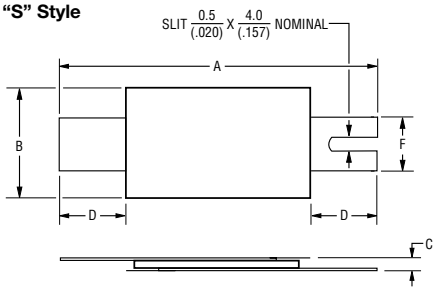
Packaging: Bulk - 500 pcs. per bag. Tape and Reel - Consult factory.

DIMENSIONS = MM / (INCHES)

Standard Style

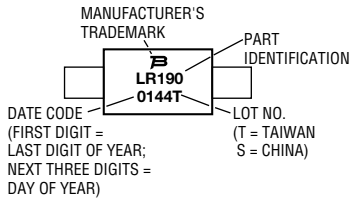


"S" Style

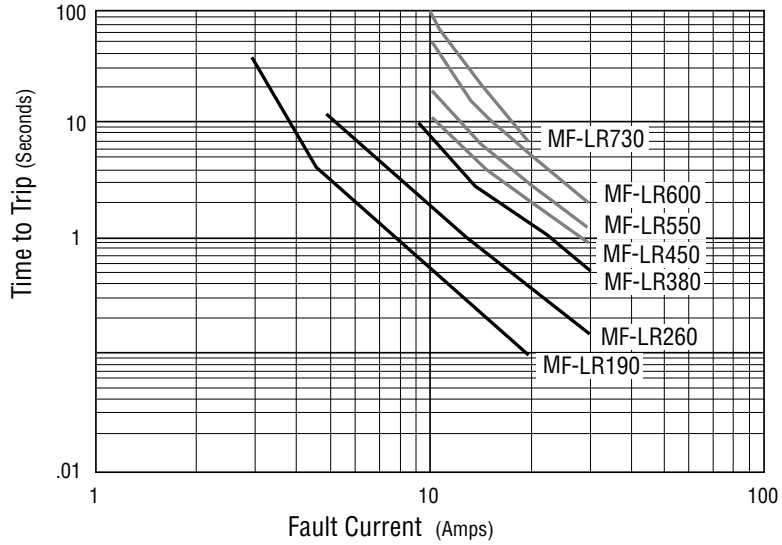


Typical Part Marking

Represents total content. Layout may vary.



Typical Time to Trip at 23°C



How To Order

MF - LR 190 S - __

Multifuse® Product Designator

Series
LR = Axial Leaded "Strap" Component

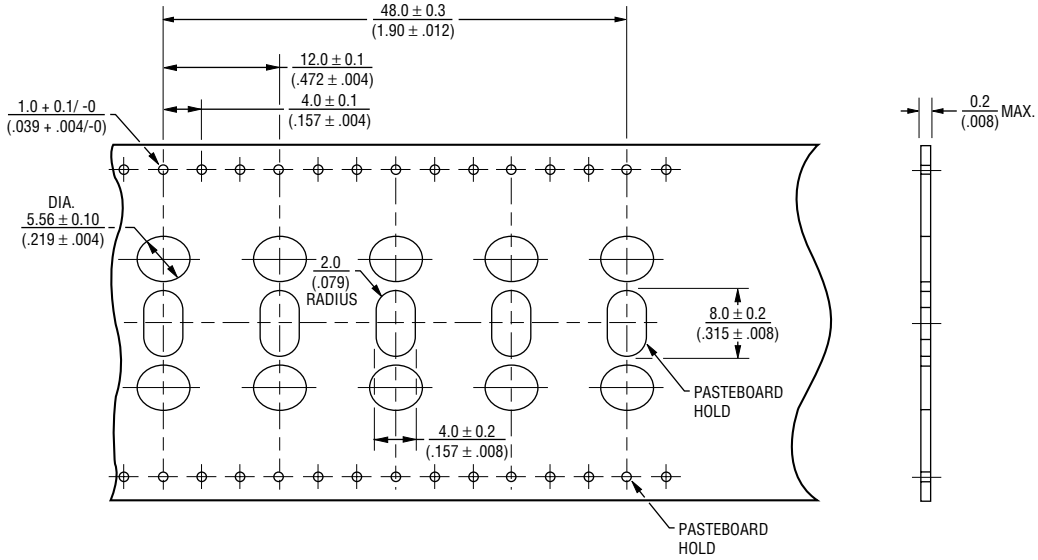
Hold Current, I_{hold}
190-730 (1.90 Amps - 7.30 Amps)

Lead Option
S = Slotted Lead Option

Packaging Options
-__ = Bulk Packaging
-2 = Tape and Reel*

*Packaged per EIA 486-B

Taped Component Dimensions



Reel Dimensions