

Features

- Axial leaded
- Fully compatible with current industry standards
- Weldable nickel terminals
- Very low internal resistance
- Agency recognition: c ¶us ≜
- RoHS compliant*

Applications

- Rechargeable battery pack protection
- Provides overcurrent protection with 125 °C trip temperature

MF-S Series - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max. Amps	I _{hold}	l _{trip}	Initial Resistance		1 Hour (R ₁) Post-Trip Resistance	st-Trip Max. Time to Tri		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.			Тур.
MF-S120	15	100	1.20	2.70	0.085	0.160	0.220	6	5.0	1.20
MF-S150	15	100	1.50	3.00	0.050	0.090	0.113	8	5.0	1.30
MF-S175	15	100	1.75	3.80	0.050	0.090	0.120	9	4.0	1.50
MF-S200	30	100	2.00	4.40	0.030	0.060	0.080	10	4.0	1.90
MF-S350	30	100	3.50	6.30	0.017	0.031	0.040	20	3.0	2.50
MF-S420	30	100	4.20	7.60	0.012	0.024	0.040	20	6.0	2.90

Environmental Characteristics

Test Procedures And Requirements For Model MF-S Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech	Verify dimensions and materials	Per MF physical description
	In still air @ 23 °C	
	At specified current, Vmax, 23 °C	
	30 min. at Ihold	
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
Trip Endurance	Vmax, 48 hours	No arcing or burning

UL File Number E174545

http://www.ul.com/ Follow link to Online Certificates Directory, then enter UL File No.

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TÜV File Number...... R 2057213

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Thermal Derating Chart - Ihold/ Itrip (Amps)

Model	Ambient Operating Temperature									
	-40 °C	-20 °C	0 ℃	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	
MF-S120	1.90 / 4.28	1.70 / 3.83	1.50 / 3.38	1.20 / 2.70	1.00 / 2.25	0.90 / 2.03	0.80 / 1.80	0.70 / 1.58	0.50 / 1.13	
MF-S150	2.20 / 4.40	2.00 / 4.00	1.80 / 3.60	1.50 / 3.00	1.30 / 2.60	1.10 / 2.20	1.00 / 2.00	0.90 / 1.80	0.70 / 1.40	
MF-S175	2.50 / 5.59	2.30 / 5.14	2.00 / 4.47	1.70 / 3.80	1.50 / 3.35	1.30 / 2.91	1.20 / 2.68	1.10 / 2.46	0.90 / 2.01	
MF-S200	3.20 / 7.04	2.80 / 6.16	2.50 / 5.50	2.00 / 4.40	1.70 / 3.74	1.60 / 3.52	1.40 / 3.08	1.20 / 2.64	0.90 / 1.98	
MF-S350	5.40 / 9.72	4.80 / 8.64	4.30 / 7.74	3.50 / 6.30	3.00 / 5.40	2.80 / 5.04	2.50 / 4.50	2.20 / 3.96	1.70 / 3.06	
MF-S420	6.40 / 11.5	5.70 / 10.3	5.10 / 9.23	4.20 / 7.60	3.60 / 6.51	3.30 / 5.97	3.00 / 5.43	2.60 / 4.70	2.10 / 3.80	

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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MF-S Series - PTC Resettable Fuses

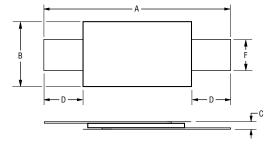
BOURNS

Product Dimensions

Model	Α		В		С		D		F	
	Min.	Max.								
MF-S120	19.9	_22.1_	4.9	5.2	_0.6	1.0	5.5	7.5	_3.8	4.1
	(0.783)	(0.870)	(0.193)	(0.205)	(0.024)	(0.039)	(0.217)	(0.295)	(0.150)	(0.161)
MF-S150	21.3	_23.4	10.2	11.0	0.5	1.1	4.1	5.5	4.8	5.4
	(0.839)	(0.921)	(0.402)	(0.433)	(0.020)	(0.043)	(0.161)	(0.217)	(0.189)	(0.213)
MF-S175	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.8	4.1
	(0.823)	(0.909)	(0.193)	(0.205)	(0.024)	(0.039)	(0.161)	(0.217)	(0.150)	(0.161)
MF-S200	21.3	_23.4_	_10.2_	11.0	_0.5	_1.1	_5.0_	_7.6	4.8	5.4
	(0.839)	(0.921)	(0.402)	(0.433)	(0.020)	(0.043)	(0.197)	(0.299)	(0.189)	(0.213)
MF-S350	28.4	_31.8_	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6
	(1.119)	(1.252)	(0.512)	(0.531)	(0.020)	(0.043)	(0.248)	(0.350)	(0.236)	(0.260)
MF-S420	30.6	32.4	12.9	13.6	0.5	1.1	5.0	7.5	6.0	6.6
	(1.205)	(1.276)	(0.508)	(0.535)	(0.020)	(0.043)	(0.197)	(0.295)	(0.236)	(0.260)

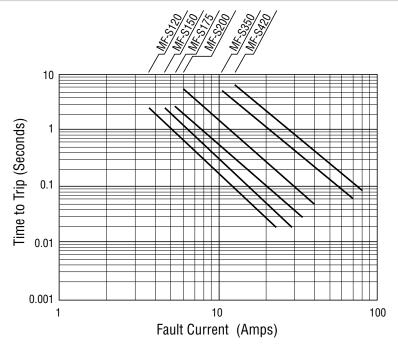
Packaging: Bulk - 500 pcs. per bag. Tape and Reel - Consult factory.

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



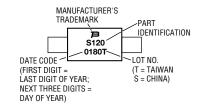
Terminal material: quarter-hard nickel

Typical Time to Trip at 23 °C

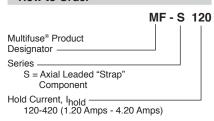


Typical Part Marking

Represents total content. Layout may vary.



How to Order



MF-S, REV. Q, 07/18

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in their specific applications.

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