

Fig.	Max. Volt.	I Max. (Amps)	Rated Current @ 23°C (Amps)		Initial Resistance @ 23°C (Ω) RMinimum	Post-Trip Resistance	Dimensions – mm							Digi-Key Part No.	Cut Tape Pricing			Tape and Reel†		Bourns Part No.
			Hold	Trip			A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	F (Min.)	1		10	100	Qty.	Pricing		
7C	60	10	0.55	1.20	0.200	0.950	5.44	4.93	1.09	0.30	—	—	MF-SMDF050-2CT-ND	.74	6.35	59.49	6,000	328.90/M	MF-SMDF050-2	
	15	40	1.50	3.00	0.070	0.175	5.44	4.93	1.09	0.30	—	—	MF-SMDF150-2CT-ND	.66	5.71	52.32	6,000	328.90/M	MF-SMDF150-2	
7D	30	10	0.05	0.15	2.800	50.000	3.43	2.80	1.1	0.30	—	—	MF-USMF005-2CT-ND	.32	2.96	27.48	3,000	169.13/M	MF-USMF005-2	
	30	10	0.10	0.30	0.800	15.000	3.43	2.80	1.1	0.30	—	—	MF-USMF010-2CT-ND	.22	1.92	18.04	3,000	108.46/M	MF-USMF010-2	
	30	10	0.20	0.40	0.400	5.000	3.43	2.80	1.1	0.30	—	—	MF-USMF020-2CT-ND	.32	2.96	27.48	3,000	169.13/M	MF-USMF020-2	
	6	40	0.35	0.75	0.200	1.300	3.43	2.80	0.85	0.30	—	—	MF-USMF035-2CT-ND	.32	2.96	27.48	3,000	169.13/M	MF-USMF035-2	
	13.2	40	0.50	1.00	0.180	0.900	3.43	2.80	0.85	0.30	—	—	MF-USMF050-2CT-ND	.32	2.96	27.48	3,000	169.13/M	MF-USMF050-2	
	6	40	0.75	1.50	0.070	0.450	3.43	2.80	0.85	0.30	—	—	MF-USMF075-2CT-ND	.35	3.17	30.95	3,000	169.13/M	MF-USMF075-2	
	6	40	1.10	2.20	0.050	0.210	3.43	2.80	0.85	0.30	—	—	MF-USMF110-2CT-ND	.35	3.17	30.95	3,000	169.13/M	MF-USMF110-2	
	6	40	1.50	3.00	0.030	0.110	3.43	2.80	0.85	0.30	—	—	MF-USMF150-2CT-ND	.83	7.14	69.64	3,000	380.54/M	MF-USMF150-2	

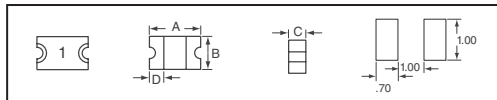
† For Tape and Reel part number, change CT-ND to TR-ND.

Kits

MF-AUTOLAB-ND	Resettable Fuses for Automotive Applications	(5 each of 8 values, 40 total pieces)	35.40
MF-DATAPORTLAB-ND	Resettable Fuses for Dataport Applications	(5 each of 8 values, 40 total pieces)	35.40
MF-TELECOMLAB-ND	Resettable Fuses for Telecom Applications	(5 each of 8 values, 40 total pieces)	3.75
MF-MSMFLAB-ND	1812 (4532 Metric) Sized SMD Models	(5 each of 8 values, 40 total pieces)	41.64
MF-NSMFLAB-ND	1206 (3216 Metric) Sized SMD Models	(5 each of 8 values, 40 total pieces)	41.64
MF-USMFLAB-ND	1210 (3225 Metric) Sized SMD Models	(5 each of 8 values, 40 total pieces)	41.64
MF-SMLAB-ND	Surface Mount Models	(5 each of 9 values, 45 total pieces)	29.15
MF-RLAB-H-ND	Radial Leaded Through-Hole Models	(5 each of 11 values, 55 total pieces)	31.86
MF-RLAB-L-ND	Radial Leaded Through-Hole Models	(5 each of 12 values, 60 total pieces)	31.86
MF-RXLAB-ND	Radial Leaded Through-Hole Models	(5 each of 7 values, 35 total pieces)	35.40

PTC Resettable Fuses
MF-FSMF Series – 0603 Footprint

Features: • Compact design saves board space - 0603 footprint • Small size results in very fast time to react to fault events • Low profile Applications: • USB port protection • PC motherboards – Plug and Play protection • Mobile phones – Battery and port protection • PDAs/digital cameras

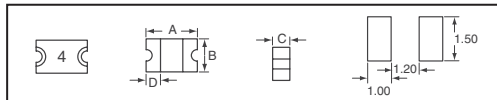


Model	Dimensions – Inches (mm)						
	A Minimum	A Maximum	B Minimum	B Maximum	C Minimum	C Maximum	D Minimum
MF-FSMF020X	0.057 (1.45)	0.073 (1.85)	0.026 (0.65)	0.041 (1.05)	0.012 (0.30)	0.026 (0.65)	0.008 (0.20)
MF-FSMF035X	0.057 (1.45)	0.073 (1.85)	0.026 (0.65)	0.041 (1.05)	0.012 (0.30)	0.026 (0.65)	0.008 (0.20)
MF-FSMF050X	0.057 (1.45)	0.073 (1.85)	0.026 (0.65)	0.041 (1.05)	0.026 (0.65)	0.039 (1.00)	0.008 (0.20)

Max. Voltage (V)	I Max. (Amps)	Rated Current @ 23°C (Amps)		Resistance Ω @ 23°C		Max. Time to Trip		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Bourns Part No.
		Hold	Trip	RMin.	R1Max.	Amps @ 23°C	Seconds @ 23°C		1	10	100		Qty.	Pricing	
9	40	0.20	0.50	0.550	3.500	1.00	0.60	MF-FSMF020X-2CT-ND	.34	.29	.27	MF-FSMF020X-2TR-ND	6,000	192.20/M	MF-FSMF020X-2
6	40	0.35	0.75	0.200	1.400	8.00	0.10	MF-FSMF035X-2CT-ND	.34	.29	.27	MF-FSMF035X-2TR-ND	6,000	192.20/M	MF-FSMF035X-2
6	40	0.50	1.00	0.100	0.800	8.00	0.10	MF-FSMF050X-2CT-ND	.34	.29	.27	MF-FSMF050X-2TR-ND	4,000	144.15/M	MF-FSMF050X-2

PTC Resettable Fuses
MF-PSMF Series – 0805 Footprint

Features: • Compact design saves board space - 0805 footprint • Small size allows fast reaction to fault events • Low profile Applications: • USB port protection – On the Go and 2.0 • PC motherboards – Plug and Play protection • Mobile phones – Battery and port protection • PDAs/digital cameras • Game console port protection



Model	Dimensions – Inches (mm)						
	A Minimum	A Maximum	B Minimum	B Maximum	C Minimum	C Maximum	D Minimum
MF-PSMF035X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.019 (0.48)	0.033 (0.85)	0.008 (0.20)
MF-PSMF050X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.019 (0.48)	0.033 (0.85)	0.008 (0.20)
MF-PSMF075X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.030 (0.75)	0.049 (1.25)	0.008 (0.20)
MF-PSMF110X	0.079 (2.00)	0.091 (2.30)	0.047 (1.20)	0.059 (1.50)	0.030 (0.75)	0.049 (1.25)	0.008 (0.20)

Max. Voltage (V)	I Max. (Amps)	Rated Current @ 23°C (Amps)		Resistance Ω @ 23°C		Max. Time to Trip		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000		Bourns Part No.
		Hold	Trip	RMin.	R1Max.	Amps @ 23°C	Seconds @ 23°C		1	10	100		Qty.	Pricing	
6	40	0.35	0.75	0.250	1.200	8.00	0.10	MF-PSMF035X-2CT-ND	.42	.36	.35	MF-PSMF035X-2TR-ND	190.27/M	MF-PSMF035X-2	
6	40	0.50	1.00	0.150	0.900	8.00	0.10	MF-PSMF050X-2CT-ND	.42	.36	.35	MF-PSMF050X-2TR-ND	190.27/M	MF-PSMF050X-2	
6	40	0.75	1.50	0.090	0.350	8.00	0.20	MF-PSMF075X-2CT-ND	.42	.36	.35	MF-PSMF075X-2TR-ND	190.27/M	MF-PSMF075X-2	
6	40	1.10	2.20	0.060	0.210	8.00	0.30	MF-PSMF110X-2CT-ND	.42	.36	.35	MF-PSMF110X-2TR-ND	190.27/M	MF-PSMF110X-2	

Telecom CPTC Resettable Fuses
CMF-RL and CMF-SD Series

Features: • Two resistance-matched PTCs in a ceramic housing • Aids compliance with: ITU-T K.20/21/45; Telcordia GR-1089-CORE; UL 60950, 3rd Ed. • Narrow resistance tolerance

Applications: Used as a secondary overcurrent protection device in: • Customer Premise Equipment (CPE) • Central Office (CO) • Access equipment

Model	Dimensions – Inches (mm)					
	A Maximum	B Maximum	C Maximum	D Nominal	E Nominal	F Nominal
CMF-RL35	0.386 (9.8)	0.197 (5.0)	0.531 (13.5)	0.118-0.138 (3.0-3.5)	0.024±0.019 (0.6±0.05)	0.200±0.012 (5.08±0.3)
CMF-RL50A	0.295 (7.5)	0.220 (5.6)	0.512 (13.0)	0.138 (3.5) – Minimum	0.024±0.019 (0.6±0.05)	0.197±0.008 (5.0±0.2)
CMF-RL55A	0.295 (7.5)	0.220 (5.6)	0.512 (13.0)	0.138 (3.5)	0.024±0.019 (0.6±0.05)	0.197±0.008 (5.0±0.2)

Model	Dimensions – Inches (mm)					
	A Maximum	B Maximum	C Maximum	D Nominal	E Nominal	F Maximum
CMF-SD25	0.354 (9.00)	0.425 (10.80)	0.402 (10.20)	0.192-0.208 (4.88-5.28)	0.095-0.103 (2.41-2.61)	0.020 (0.5)
CMF-SD35A	0.281 (7.15)	0.335 (8.50)	0.319 (8.10)	0.128-0.144 (3.25-3.65)	0.095-0.103 (2.41-2.61)	0.020 (0.5)
CMF-SD50A-10	0.281 (7.15)	0.335 (8.50)	0.319 (8.10)	0.128-0.144 (3.25-3.65)	0.095-0.103 (2.41-2.61)	0.020 (0.5)

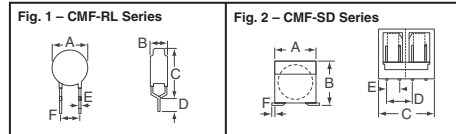


Fig.	Rated Voltage (V)	Rated Resistance		Rated Current @ 25°C (Amps)		Time to Trip @ Imax/230VAC	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Bourns Part No.
		Ω	Tolerance	Hold	Trip			1	10	100		Qty.	Pricing	
1	230	35	±20%	0.075	0.150	≤0.15 Sec.	CMF-RL35-0-ND	.60	.56	.51	—	—	CMF-RL35-0	
	230	50	±20%	0.050	0.100	≤0.1 Sec.	CMF-RL50A-0-ND	.60	.56	.51	—	—	CMF-RL50A-0	
	230	55	±20%	0.050	0.100	≤0.1 Sec.	CMF-RL55A-0-ND	.60	.56	.51	—	—	CMF-RL55A-0	
2	230	25	±20%	0.130	0.260	<0.3 Sec.	CMF-SD25-2CT-ND†	1.39	1.23	1.20	CMF-SD25-2TR-ND	400	213.53	CMF-SD25-2
	230	35	±20%	0.100	0.200	<0.2 Sec.	CMF-SD35A-2CT-ND†	1.39	1.23	1.20	CMF-SD35A-2TR-ND	500	262.15	CMF-SD35A-2
	230	50	±10%	0.090	0.190	<0.1 Sec.	CMF-SD50A-10-2CT-ND†	1.53	1.35	1.32	CMF-SD50A-10-2TR-ND	500	287.52	CMF-SD50A-10-2

† Cut Tape

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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