



Features

- Radial leaded ceramic PTC resettable fuse
- Lead-free terminals
- Wide range of switching temperatures
- RoHS compliant*

Applications

Used for overload, overcurrent, overtemperature, or short circuit protection in:

- Transformers
- Control panels
- Battery chargers
- Home appliances
- Motors
- Power supplies

CMF-RC Series - Overload CPTC Resettable Fuses

Electrical Characteristics (for V_{max} from 15 V to 80 V)

Model	Max. Voltage V_{max}	Rated Voltage V_N	Rated Resistance $R_N @ 25^\circ C$	Curie Temperature T_C	Hold Current I_H @ 25 °C	Trip Current I_T @ 25 °C	Max. Current I_{max}	Residual Current I_r	Min. Resistance R_{min}
	(V)	(V)	(Ω)	(°C)	(mA)	(mA)	(A)	(mA)	(Ω)
CMF-RC1X50/15	15	12	1	150	650	1250	2.5	150	0.55
CMF-RCR3X60/20	20	12	0.30	160	2100	4150	10	240	0.2
CMF-RCR45X60/20	20	12	0.45	160	1500	3050	8	170	0.3
CMF-RCR8X60/20	20	12	0.80	160	950	1900	5.5	120	0.5
CMF-RC1R2X60/20	20	12	1.2	160	700	1450	4.3	105	0.7
CMF-RC1R8X60/20	20	12	1.8	160	550	1100	3	85	1.1
CMF-RC4R6X60/20	20	12	4.6	160	300	600	1	65	2.7
CMF-RC13X60/20	20	12	13	160	150	300	0.7	40	7.8
CMF-RCR3X20/30	30	12/24	0.30	120	1800	3600	10	170	0.2
CMF-RCR45X20/30	30	12/24	0.45	120	1300	2600	8	115	0.3
CMF-RCR8X20/30	30	12/24	0.80	120	850	1700	5.5	80	0.5
CMF-RC1R2X20/30	30	12/24	1.2	120	600	1200	4.3	70	0.7
CMF-RC1R8X20/30	30	12/24	1.8	120	450	900	3	60	1.1
CMF-RC4R6X20/30	30	12/24	4.6	120	150	500	1	45	2.7
CMF-RC13X20/30	30	12/24	13	120	120	240	0.7	25	7.8
CMF-RC1X20/54	54	42	1	120	750	1300	8	50	0.7
CMF-RC1R8X20/54	54	42	1.8	120	430	770	6	40	1.2
CMF-RC2R7X20/54	54	42	2.7	120	320	560	5	30	1.8
CMF-RC4R2X20/54	54	42	4.2	120	230	410	4	20	2.9
CMF-RC10X20/54	54	42	10	120	140	240	2	15	6.8
CMF-RC1R2X30/80	80	63	1.2	130	1000	1500	10	60	0.8
CMF-RC1R65W80/80	80	63	1.65	80	340	700	10	35	1.1
CMF-RC1R65X20/80	80	63	1.65	120	700	1400	10	50	1.1
CMF-RC2X30/80	80	63	2	130	700	1100	8	50	1.5
CMF-RC2R3W80/80	80	63	2.3	80	245	500	8	25	1.5
CMF-RC2R3X20/80	80	63	2.3	120	450	900	8	40	1.5
CMF-RC3R3X30/80	80	63	3.3	130	450	690	5.5	30	2.2
CMF-RC3R7W80/80	80	63	3.7	80	170	350	5.5	20	2.4
CMF-RC3R7X20/80	80	63	3.7	120	320	640	5.5	30	2.4
CMF-RC4R9X30/80	80	63	4.9	130	320	500	4.3	25	3.2
CMF-RC5R6W80/80	80	60	5.6	80	130	265	4.3	15	3.7
CMF-RC5R6X20/80	80	63	5.6	120	250	500	4.3	25	3.7
CMF-RC8X30/80	80	63	8	130	250	380	3	20	5.2
CMF-RC9R4W80/80	80	63	9.4	80	90	190	3	11	6.2
CMF-RC9R4X20/80	80	63	9.4	120	150	300	3	20	6.2
CMF-RC20X30/80	80	63	20	130	150	240	1	18	13.2
CMF-RC25W80/80	80	63	25	80	50	110	1	8	16.5
CMF-RC25X20/80	80	63	25	120	85	170	1	16	16.5
CMF-RC55W80/80	80	63	55	80	30	60	0.7	5	36.3
CMF-RC55X20/80	80	63	55	120	50	100	0.7	12	36.3
CMF-RC62X30/80	80	63	62	130	85	130	0.7	15	40.9



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

*RoHS3 Directive 2015/863 Amendments of Annex II on Mar 31, 2015.
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CMF-RC Series – Overload CPTC Resettable Fuses

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Electrical Characteristics (for V_{max} from 160 V to 1,000 V)

Model	Max. Voltage V_{max}	Rated Voltage V_N	Rated Resistance $R_N @ 25^\circ C$	Curie Temperature T_C	Hold Current $I_H @ 25^\circ C$	Trip Current $I_T @ 25^\circ C$	Max. Current I_{max}	Residual Current I_r	Min. Resistance R_{min}
	(V)	(V)	(Ω)	($^\circ C$)	(mA)	(mA)	(A)	(mA)	(Ω)
CMF-RC3R7X60/160	160	110	3.7	160	525	1050	7	24	2.2
CMF-RC6X60/160	160	110	6	160	400	800	4.1	18	3.6
CMF-RC10X60/160	160	110	10	160	250	500	2.2	16	6
CMF-RC15X60/160	160	110	15	160	180	360	1.5	13	7.8
CMF-RC25X60/160	160	110	25	160	125	250	1	11	13.1
CMF-RC70X60/160	160	110	70	160	70	140	0.4	8	36.7
CMF-RC150X60/160	160	110	150	160	35	70	0.2	6	78.7
CMF-RC3R5X30/265	265	230	3.5	130	650	980	7	20	2.3
CMF-RC3R7X20/265	265	230	3.7	120	460	920	7	20	2.4
CMF-RC5X30/265	265	230	5	130	450	680	4.1	15	3.3
CMF-RC6W80/265	265	230	6	80	170	350	4.1	10	3.6
CMF-RC6X20/265	265	230	6	120	330	660	4.1	15	3.8
CMF-RC9X30/265	265	230	9	130	330	500	2.2	13	5.9
CMF-RC10W80/265	265	230	10	80	110	230	2.2	8	6
CMF-RC10X20/265	265	230	10	120	200	400	2.2	13	6.4
CMF-RC13X30/265	265	230	13	130	200	320	1.5	10	8.6
CMF-RC15W80/265	265	230	15	80	90	180	1.5	6	7.8
CMF-RC15X20/265	265	230	15	120	140	280	1.5	10	9
CMF-RC25W80/265	265	230	25	80	60	130	1	5	13.1
CMF-RC25X20/265	265	230	25	120	100	200	1	9	15
CMF-RC25X30/265	265	230	25	130	140	230	1	9	16.5
CMF-RC35X20/265	265	230	35	120	80	160	1	9	21
CMF-RC45X20/265	265	230	45	120	70	140	1	9	27
CMF-RC50X30/265	265	230	50	130	100	150	0.4	6	33
CMF-RC55X20/265	265	230	55	120	60	125	1	9	31
CMF-RC65X20/265	265	230	65	120	55	110	1	9	36
CMF-RC70W80/265	265	230	70	80	30	70	0.4	4	36.7
CMF-RC70X20/265	265	230	70	120	55	110	0.4	6	29
CMF-RC120X20/265	265	230	120	120	35	70	0.4	5	67
CMF-RC150W80/265	265	230	150	80	15	40	0.2	3	78.7
CMF-RC150X20/265	265	230	150	120	30	60	0.2	5	84
CMF-RC160X30/265	265	230	160	130	55	90	0.2	5	106
CMF-RC25X20/420	420	380	25	120	123	245	2	4	13
CMF-RC50X20/420	420	380	50	120	87	173	2	3.5	26
CMF-RC70X20/420	420	380	70	120	64	127	1.4	3.5	45
CMF-RC80X20/420	420	380	80	120	69	137	2	3.5	42
CMF-RC120X20/420	420	380	120	120	56	112	2	3	63
CMF-RC150X20/420	420	380	150	120	50	100	2	3	68
CMF-RC600X20/420	420	380	600	120	21	39	0.2	3	340
CMF-RC500X15/550	550	500	500	115	28	55	1.4	2	230
CMF-RC500X20/550	550	500	500	120	24	48	1	2	320
CMF-RC1K1X15/550	550	500	1100	115	16	32	1	1.5	700
CMF-RC1K2X15/550	550	500	1200	115	15	30	0.1	3	675
CMF-RC1K5X15/550	550	500	1500	115	12	24	0.1	2	840
CMF-RC7K5X10/1K	1000	1000	7500	110	8	17	0.5	3	3380

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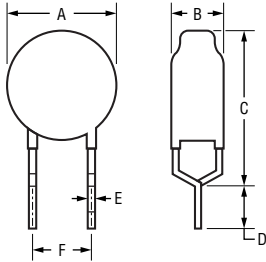
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CMF-RC Series – Overload CPTC Resettable Fuses

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Product Dimensions (for V_{max} from 15 V to 54 V)



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

Model	A Max.	B Max.	C Max.	D Min.	E Dia. Nom.	F Nom.	Bulk Packing Quantity (pcs./bag)
CMF-RC1X50/15	$\frac{6.8}{(.268)}$	$\frac{5}{(.197)}$	$\frac{10.3}{(.406)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	480
CMF-RCR3X60/20	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RCR45X60/20	$\frac{17.5}{(.690)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RCR8X60/20	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC1R2X60/20	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC1R8X60/20	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC4R6X60/20	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC13X60/20	$\frac{4}{(.157)}$	$\frac{3.5}{(.138)}$	$\frac{7.5}{(.295)}$	$\frac{25}{(.984)}$	$\frac{0.5}{(.020)}$	$\frac{5.0}{(.197)}$	400
CMF-RCR3X20/30	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RCR45X20/30	$\frac{17.5}{(.690)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RCR8X20/30	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC1R2X20/30	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC1R8X20/30	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC4R6X20/30	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC13X20/30	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{25}{(.984)}$	$\frac{0.5}{(.020)}$	$\frac{5.0}{(.197)}$	400
CMF-RC1X20/54	$\frac{17.5}{(.690)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC1R8X20/54	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC2R7X20/54	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC4R2X20/54	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC10X20/54	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{25}{(.984)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350

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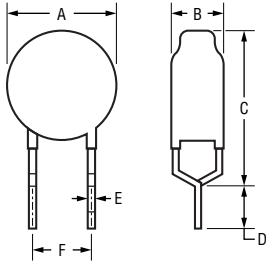
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CMF-RC Series – Overload CPTC Resettable Fuses

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Product Dimensions (for V_{max} 80 V)



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

Model	A Max.	B Max.	C Max.	D Min.	E Dia. Nom.	F Nom.	Bulk Packing Quantity (pcs./bag)
CMF-RC1R2X30/80	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC1R65W80/80	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC1R65X20/80	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC2X30/80	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC2R3W80/80	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC2R3X20/80	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC3R3X30/80	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC3R7W80/80	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC3R7X20/80	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC4R9X30/80	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC5R6W80/80	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC5R6X20/80	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC8X30/80	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC9R4W80/80	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC9R4X20/80	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC20X30/80	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC25W80/80	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC25X20/80	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC55W80/80	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400
CMF-RC55X20/80	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400
CMF-RC62X30/80	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400

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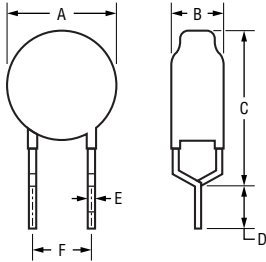
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CMF-RC Series – Overload CPTC Resettable Fuses

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Product Dimensions (for V_{max} 160 V to 265 V)



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

Model	A Max.	B Max.	C Max.	D Min.	E Dia. Nom.	F Nom.	Bulk Packing Quantity (pcs./bag)
CMF-RC3R7X60/160	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC6X60/160	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC10X60/160	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC15X60/160	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC25X60/160	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC70X60/160	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC150X60/160	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400
CMF-RC3R5X30/265	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC3R7X20/265	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC5X30/265	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC6W80/265	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC6X20/265	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC9X30/265	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC10W80/265	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC10X20/265	$\frac{13.5}{(.531)}$	$\frac{5}{(.197)}$	$\frac{17.0}{(.669)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100
CMF-RC13X30/265	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC15W80/265	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC15X20/265	$\frac{11}{(.433)}$	$\frac{5}{(.197)}$	$\frac{14.5}{(.571)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC25W80/265	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC25X20/265	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC25X30/265	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC35X20/265	$\frac{22}{(.866)}$	$\frac{5}{(.197)}$	$\frac{25.5}{(1.004)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	50
CMF-RC45X20/265	$\frac{17.5}{(.689)}$	$\frac{5}{(.197)}$	$\frac{21.0}{(.827)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	100

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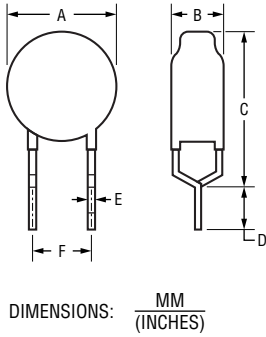
Users should verify actual device performance in their specific applications.

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CMF-RC Series – Overload CPTC Resettable Fuses

BOURNS®

Product Dimensions (for V_{max} 265 V continued to 1 KV)



Model	A Max.	B Max.	C Max.	D Min.	E Dia. Nom.	F Nom.	Bulk Packing Quantity (pcs./bag)
CMF-RC50X30/265	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC55X20/265	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC65X20/265	$\frac{9}{(.354)}$	$\frac{5}{(.197)}$	$\frac{12.5}{(.492)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC70W80/265	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC70X20/265	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC120X20/265	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC150W80/265	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400
CMF-RC150X20/265	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400
CMF-RC160X30/265	$\frac{4}{(.157)}$	$\frac{5}{(.197)}$	$\frac{7.5}{(.295)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	400
CMF-RC25X20/420	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC50X20/420	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC70X20/420	$\frac{8.5}{(.335)}$	$\frac{5}{(.197)}$	$\frac{12.0}{(.472)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC80X20/420	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC120X20/420	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC150X20/420	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC600X20/420	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC500X15/550	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC500X20/550	$\frac{8.5}{(.335)}$	$\frac{5}{(.197)}$	$\frac{12.0}{(.472)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC1K1X15/550	$\frac{8.5}{(.335)}$	$\frac{5}{(.197)}$	$\frac{12.0}{(.472)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200
CMF-RC1K2X15/550	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC1K5X15/550	$\frac{6.5}{(.256)}$	$\frac{5}{(.197)}$	$\frac{10.0}{(.394)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	350
CMF-RC7K5X10/1K	$\frac{12.5}{(.492)}$	$\frac{5}{(.197)}$	$\frac{16.0}{(.630)}$	$\frac{35}{(1.378)}$	$\frac{0.6}{(.024)}$	$\frac{5.0}{(.197)}$	200

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Test Procedures and Requirements

Test	Test Condition and Method	Standard	Requirement	
Tensile Strength of Lead Wire Terminal	Apply axial stress on the terminal lead of part gradually until 4.9 N and last for 10 s	IEC 60738-1	No visible damage (R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
Solderability	Solder bath temperature 235 ±3 °C, immersion time 2 ± 0.5 s	IEC 60738-1	At least 95 % of terminal electrode is covered by solder	
Resistance to Soldering Heat	Solder bath temperature 350 ±3 °C, immersion time 33.5 ± 0.5 s	IEC 60738-1	(R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
Vibration	Frequency increase range: 10~55 Hz in 1 minute Amplitude: 0.75 mm Direction: X/Y mutually perpendicular directions Duration: 45 minutes	IEC 60738-1	No visible damage (R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
Shock	Acceleration: 100 m/s Pulse time: 11 ms Direction: X/Y mutually perpendicular directions Frequency: 60~80 times per minute Collision: 1000 times	IEC 60738-1	No visible damage (R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
Rapid Change of Temperature	The thermal shock conditions shown below shall be repeated 5 cycles		No visible damage (R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
	Step	Temperature (°C)		Period (minutes)
	1	-40 ±5		30 ±3
	2	Room temperature		2
	3	85 ±5		30 ±3
4	Room temperature	2		
Damp Heat, Steady State	40 ±2 °C, 90~95 %RH, 48 hrs	IEC 60738-1	(R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
High Temperature	Put sample under 60 °C for 2 hours, Measure the value of its resistance	IEC 60738-1	No visible damage (R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	
Low Temperature	Put sample under 0 °C for 2 hours, Measure the value of its resistance	IEC 60738-1	R1: resistance before test R2: resistance after test	
Endurance at Maximum Voltage	25 ±5 °C, V _N , I _t ≤ I ≤ I _{max} 1 minute on and 5 minutes off x 100 cycles	IEC 60738-1	No visible damage (R2-R1) / R1 ≤20 % R1: resistance before test R2: resistance after test	

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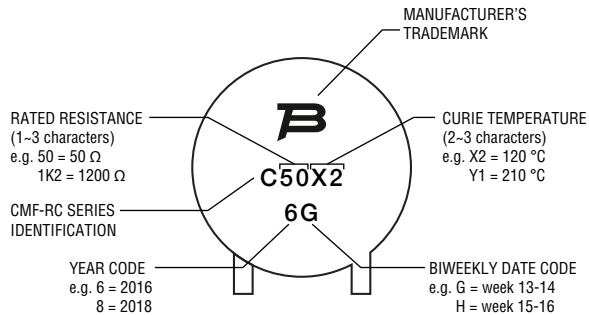
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CMF-RC Series – Overload CPTC Resettable Fuses



Typical Part Marking

Represents total content. Layout may vary.



Packaging

CMF-RC models are packaged according to their corresponding bulk package quantity in the Product Dimension tables. Ammo pack packaging is available upon request.

Environmental Characteristics

Moisture Sensitivity Level..... 1
ESD Classification (HBM)..... Class 6

How To Order

CMF - RC 5R6 X60 / 265 - 0

Model Series	_____	_____	_____	_____	_____
Ceramic PTC Product Designator					
Style	_____	_____	_____	_____	_____
RC = Radial Leaded Overload CPTC Resettable Fuse					
Rated Resistance (see Electrical Characteristics tables)	_____	_____	_____	_____	_____
R5 = 0.5 Ω					
5R6 = 5.6 Ω					
200 = 200 Ω					
2K5 = 2500 Ω					
Curie Temperature (see Electrical Characteristics tables)	_____	_____	_____	_____	_____
W80 = 80 °C					
X60 = 160 °C					
Maximum Voltage (see Electrical Characteristics tables)	_____	_____	_____	_____	_____
20 = 20 V					
265 = 265 V					
1K = 1000 V					
Packaging Designator	_____	_____	_____	_____	_____
-0 = Bulk packing					

Alternative resistance tolerances and lead lengths available upon request.



Asia-Pacific: Tel: +886-2 2562-4117 • Email: asiacus@bourns.com

EMEA: Tel: +36 88 885 877 • Email: eurocus@bourns.com

The Americas: Tel: +1-951 781-5500 • Email: americus@bourns.com

www.bourns.com

REV. 03/20

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