



Features

- Compliant with AEC-Q200 Rev-C- Stress Test Qualification for Passive Components in Automotive Applications
- Operating temperature range up to 125 °C
- Low thermal derating factor
- Higher hold currents at elevated temperature
- Choice of operating currents
- RoHS compliant* and Pb free
- Resettable fault protection of general electronic equipment

MF-RHT Series - PTC Resettable Fuses

Electrical Characteristics

Model	V max. Volts	I max. Amps	I _{hold}	I _{trip}	Resistance		Max. Time To Trip		Tripped Power Dissipation
			Amperes at 23 °C		Ohms at 23 °C		Amperes at 23 °C	Seconds at 23 °C	Watts at 23 °C
			Hold	Trip	R _{Min.}	R _{1Max.} (Post Trip)		Max.	Typ.
MF-RHT070	16	40	0.7	1.4	0.3	0.8	3.5	4.0	1.4
MF-RHT200	16	100	2.0	3.8	0.045	0.110	12.5	3.0	1.4
MF-RHT450	16	100	4.5	7.8	0.022	0.054	22.5	3.0	3.6
MF-RHT650	16	100	6.5	12.0	0.011	0.026	32.5	5.5	4.3
MF-RHT750	16	100	7.5	13.1	0.0094	0.022	37.5	7.0	4.5
MF-RHT1300	16	100	13.0	24.0	0.0041	0.010	60.0	13.0	6.9

Environmental Characteristics

Operating Temperature.....	-40 °C to +125 °C
Storage Temperature.....	-40 °C to +85 °C
Passive Aging.....	+85 °C, 1000 hours..... ±15 % typical resistance change
Humidity Aging.....	+85 °C, 85 % R.H. 1000 hours..... ±15 % typical resistance change
Thermal Shock.....	MIL-STD-202, Method 107..... ±10 % typical resistance change
	+125 °C to -40 °C, 10 cycles
Vibration.....	MIL-STD-883C, Method 2007.1, Condition A..... No change

Test Procedures And Requirements For Model MF-RHT Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.....	Verify dimensions and materials.....	Per MF physical description
Resistance.....	In still air @ 23 °C.....	R _{min} ≤ R ≤ R _{1max}
Time to Trip.....	At specified current, V _{max} , 23 °C.....	T ≤ max. time to trip (seconds)
Hold Current.....	30 min. at I _{hold}	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.....	MIL-STD-202, Method 208.....	95 % min. coverage

Thermal Derating Chart - I_{hold} (Amps)

Model	Ambient Operating Temperature									
	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	125 °C
MF-RHT070	0.95	0.87	0.79	0.7	0.62	0.56	0.51	0.47	0.39	0.17
MF-RHT200	2.71	2.49	2.26	2.00	1.77	1.60	1.46	1.34	1.11	0.49
MF-RHT450	6.1	5.6	5.1	4.5	4.0	3.6	3.3	3.0	2.5	1.1
MF-RHT650	8.8	8.1	7.4	6.5	5.7	5.3	4.8	4.3	3.6	1.6
MF-RHT750	10.2	9.4	8.6	7.5	6.6	6.1	5.6	5.0	4.1	1.9
MF-RHT1300	17.7	16.3	14.8	13.0	11.4	10.5	9.6	8.6	7.2	3.3

How to Order

MF - RHT 750 -

Multifuse® Product Designator	MF - RHT 750 -
Series	RHT = High Temperature Radial Leaded Component
Hold Current, I _{hold}	070 - 1300 (0.70 - 13.00 Amps)
Packaging Options	- = Bulk Packaging - 2 = Tape and Reel* - AP = Ammo-Pak*

*Packaged per EIA 486-B

*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications.

Applications

- Protection of automotive circuitry including engine control modules
- Overcurrent surge protection of electronic equipment required to operate at high operating temperature ranges
- Resettable fault protection of general electronic equipment

MF-RHT Series - PTC Resettable Fuses

BOURNS®

Product Dimensions

Model	A	B	C		D	E	F	Physical Characteristics	
	Max.	Max.	Nom.	Tol. ±	Min.	Max.	Nom.	Style	Material
MF-RHT070	$\frac{6.86}{(0.27)}$	$\frac{10.8}{(0.425)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.51}{(0.020)}$	1	Sn/CuFe
MF-RHT200	$\frac{9.4}{(0.37)}$	$\frac{14.0}{(0.55)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.51}{(0.020)}$	3	Sn/Cu
MF-RHT450	$\frac{10.4}{(0.41)}$	$\frac{15.6}{(0.61)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT650	$\frac{12.7}{(0.50)}$	$\frac{22.2}{(0.88)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT750	$\frac{14.0}{(0.55)}$	$\frac{23.5}{(0.93)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT1300	$\frac{23.5}{(0.925)}$	$\frac{28.7}{(1.17)}$	$\frac{10.2}{(0.402)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.6}{(0.14)}$	$\frac{1.0}{(0.040)}$	2	Sn/Cu

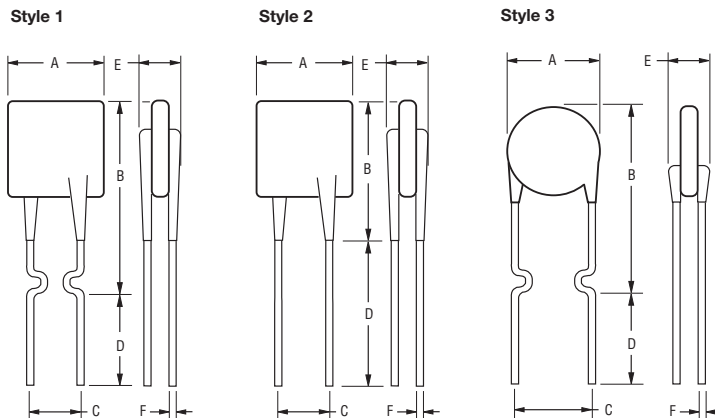
Packaging:

BULK: 500 pcs. per bag

TAPE & REEL: MF-RHT070 ~ MF-RHT200 = 3000 pcs. per reel; MF-RHT450 ~ MF-RHT650 = 1500 pcs. per reel;
MF-RHT750 ~ MF-RHT1300 = 1000 pcs. per reel

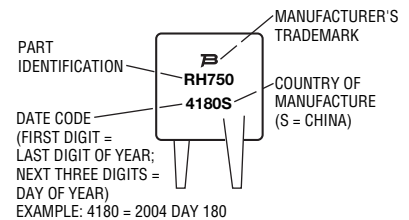
AMMO-PACK: MF-RHT070 ~ MF-RHT200 = 2000 pcs. per pack; MF-RHT450 ~ MF-RHT750 = 1000 pcs. per pack;
MF-RHT1300 = 500 pcs. per pack

0.51 (24AWG) DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$
0.81 (20AWG)
1.0 (18AWG)

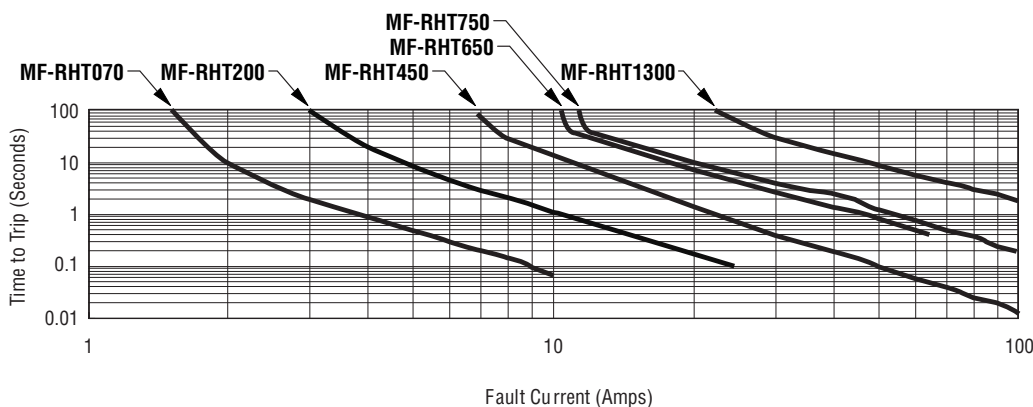


Typical Part Marking

Represents total content. Layout may vary.



Typical Time to Trip at 23 °C



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.

MF-RHT SERIES, REV. E, 01/10

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MF-RHT Series Tape and Reel Specifications

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Devices taped using EIA468-B/IEC60286-2 standards. See table below and Figures 1 and 2 for details.

Dimension Description	IEC Mark	EIA Mark	Dimensions	
			Dimensions	Tolerance
Carrier tape width	W	W	$\frac{18}{(.709)}$	$\frac{-0.5/+1.0}{(-0.02/+0.039)}$
Hold down tape width	W_0	W_4	$\frac{11}{(.433)}$	min.
Hold down tape			No protrusion	
Top distance between tape edges	W_2	W_6	$\frac{3}{(.118)}$	max.
Sprocket hole position	W_1	W_5	$\frac{9}{(.354)}$	$\frac{-0.5/+0.75}{(-0.02/+0.03)}$
Sprocket hole diameter	D_0	D_0	$\frac{4}{(.157)}$	$\frac{\pm 0.2}{(\pm .0078)}$
Abscissa to plane (straight lead)	H	H	$\frac{18.5}{(.728)}$	$\frac{\pm 3.0}{(\pm .118)}$
Abscissa to plane (kinked lead)	H_0	H_0	$\frac{16}{(.63)}$	$\frac{\pm 0.5}{(\pm .02)}$
Abscissa to top: MF-RHT070 ~ MF-RHT450	H_1	H_1	$\frac{32.2}{(1.268)}$	max.
Abscissa to top: MF-RHT650 ~ MF-RHT1300	H_1	H_1	$\frac{45.0}{(1.837)}$	max.
Overall width w/lead protrusion: MF-RHT070 ~ MF-RHT450		C_1	$\frac{42.5}{(1.673)}$	max.
Overall width w/lead protrusion: MF-RHT650 ~ MF-RHT1300		C_1	$\frac{55.0}{(2.165)}$	max.
Overall width w/o lead protrusion: MF-RHT070 ~ MF-RHT450		C_2	$\frac{42.5}{(1.673)}$	max.
Overall width w/o lead protrusion: MF-RHT650 ~ MF-RHT1300		C_2	$\frac{54.0}{(2.126)}$	max.
Lead protrusion	l_1	L_1	$\frac{1.0}{(.039)}$	max.
Protrusion of cutout	L	L	$\frac{11}{(.433)}$	max.
Protrusion beyond hold-down tape	l_2	l_2	Not specified	
Sprocket hole pitch	P_0	P_0	$\frac{12.7}{(0.5)}$	$\frac{\pm 0.3}{(\pm .012)}$
Pitch tolerance			20 consecutive	$\frac{\pm 1}{(\pm .039)}$
Device pitch: MF-RHT070 ~ MF-RHT450			$\frac{12.7}{(0.5)}$	$\frac{\pm 0.3}{(\pm .012)}$
Device pitch: MF-RHT650 ~ MF-RHT1300			$\frac{25.4}{(1.0)}$	$\frac{\pm 0.6}{(\pm .024)}$
Tape thickness	t	t	$\frac{0.9}{(.035)}$	max.
Tape thickness with splice: MF-RHT070		t_1	$\frac{1.5}{(.059)}$	max.
Tape thickness with splice: MF-RHT450 ~ MF-RHT1300		t_1	$\frac{2.3}{(.091)}$	max.
Splice sprocket hole alignment			$\frac{4.0}{(.157)}$	$\frac{\pm 0.2}{(\pm .008)}$
Body lateral deviation	Δ_h	Δ_h	0	$\frac{\pm 1}{(\pm .039)}$
Body tape plane deviation	Δ_p	Δ_p	0	$\frac{\pm 0.3}{(\pm .012)}$
Ordinate to adjacent component lead	P_1	P_1	$\frac{3.81}{(.015)}$	$\frac{\pm 0.07}{(\pm .028)}$

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



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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