

Features

- Compliant with AEC-Q200 Rev-D- 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 halogen free**
- Resettable fault protection of general electronic equipment





MF-RHT Series - High Temperature PTC Resettable Fuses

Electrical Characteristics

Model	V _{max}	I _{max}	l _{hold}	l _{trip}	Initial Resistance	1 Hour (R ₁) Post-Trip Resistance	-	. Time Trip	Tripped Power Dissipation		ency gnition
	l liux	max.	at 23 °C		at 23 °C Ohms	at 23 °C Ohms	at 23 °C		at 23 °C Watts	cUL	ΤÜV
	Volts	Amps	Am	nps	Min.	Max.	Amps Seconds		Тур.	E174545	R50494578
MF-RHT050	30	40	0.5	0.92	0.48	1.10	2.5	2.5	0.9	1	1
MF-RHT070	30	40	0.7	1.4	0.30	0.80	3.5	4.0	1.4	1	1
MF-RHT100	30	40	1.0	1.8	0.18	0.43	5.2	5.0	1.4	1	1
MF-RHT200	16	100	2.0	3.8	0.045	0.110	12.5	3.0	1.4	1	1
MF-RHT200/32	32	50	2.0	3.8	0.045	0.110	12.5	3.0	1.4	1	✓
MF-RHT300	16	100	3.0	6.0	0.033	0.079	15.0	5.0	3.0	1	1
MF-RHT400	16	100	4.0	7.5	0.024	0.060	20.0	5.0	3.3	1	1
MF-RHT450	16	100	4.5	7.8	0.022	0.054	22.5	3.0	3.6	1	✓
MF-RHT500	16	100	5.0	9.0	0.0175	0.045	25.0	9.0	3.6	1	✓
MF-RHT550	16	100	5.5	10.0	0.0150	0.037	27.5	6.0	3.5	1	✓
MF-RHT600	16	100	6.0	10.8	0.0130	0.032	30.0	5.0	4.1	1	✓
MF-RHT650	16	100	6.5	12.0	0.0110	0.026	32.5	5.5	4.3	1	1
MF-RHT700	16	100	7.0	13.0	0.0100	0.025	35.0	7.0	4.0	1	1
MF-RHT750	16	100	7.5	13.1	0.0094	0.022	37.5	7.0	4.5	1	1
MF-RHT800	16	100	8.0	15.0	0.0080	0.020	40.0	8.0	4.2	1	✓
MF-RHT900	16	100	9.0	16.5	0.0074	0.017	45.0	10.0	5.0	1	1
MF-RHT1000	16	100	10.0	18.5	0.0062	0.015	50.0	9.0	5.3	1	✓
MF-RHT1100	16	100	11.0	20.0	0.0055	0.013	55.0	11.0	5.5	1	1
MF-RHT1300	16	100	13.0	24.0	0.0041	0.010	60.0	13.0	6.9	1	1

Environmental Characteristics

Item	Condition	Criteria
Operating Temperature	-40 °C to +125 °C	
Recommended Storage	+40 °C max. / 70 % R.H. max.	
Passive Aging	+85 °C, 1000 hours	±5 % typical resistance change
Humidity Aging	+85 °C, 85 % R.H. 1000 hours	±5 % typical resistance change
Thermal Shock	-40 °C to +85 °C, 10 times	±10 % typical resistance change
Solvent Resistance	MIL-STD-202, Method 215	No change (marking still legible)
Vibration	MIL-STD-883C, Method 2007.1 Condition A	No change (R _{min} < R < R _{1max})
Moisture Sensitivity Level (MSL)	See Note	
ESD Classification	Class 6 (per AEC-Q200-2, HBM)	

Additional Information

Click these links for more information:











PRODUCT TECHNICAL INVENTORY SAMPLES CONTACT



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

RoHS Directive 2015/863, Mar 31, 2015 and Annex. Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (CI) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is

1500 ppm or less. Specifications are subject to change without notice. Users should verify actual device performance in their specific applications. The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

MF-RHT Series - High Temperature PTC Resettable Fuses

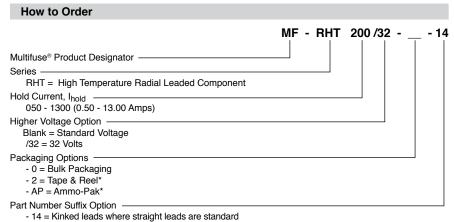
Test Procedures and Requirements

Item	Test Conditions	Accept/Reject Criteria		
Visual/Mechanical	Verify dimensions and materials	Per MF physical description		
Resistance	In still air @ 23 °C	$R_{min} \le R \le R_{max}$		
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	245 °C ± 5 °C, 5 seconds	95 % min. coverage		

Thermal Derating Table - Ihold (Amps)

		Ambient Operating Temperature									
Model	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	125 °C	
MF-RHT050	0.68	0.62	0.56	0.5	0.44	0.4	0.36	0.34	0.28	0.12	
MF-RHT070	0.95	0.87	0.79	0.7	0.62	0.56	0.51	0.47	0.39	0.17	
MF-RHT100	1.36	1.24	1.13	1.0	0.89	0.80	0.73	0.67	0.56	0.24	
MF-RHT200	2.71	2.49	2.26	2.0	1.77	1.60	1.46	1.34	1.11	0.49	
MF-RHT200/32	2.71	2.49	2.26	2.0	1.77	1.60	1.46	1.34	1.11	0.49	
MF-RHT300	4.07	3.74	3.41	3.0	2.65	2.40	2.21	2.00	1.66	0.74	
MF-RHT400	5.57	5.11	4.65	4.0	3.62	3.29	3.01	2.73	2.27	1.01	
MF-RHT450	6.1	5.6	5.1	4.5	4.0	3.6	3.3	3.0	2.5	1.1	
MF-RHT500	6.78	6.22	5.67	5.0	4.44	4	3.67	3.33	2.78	1.22	
MF-RHT550	7.47	6.86	6.24	5.5	4.85	4.41	4.04	3.66	3.05	1.36	
MF-RHT600	8.20	7.50	6.80	6.0	5.3	4.9	4.4	4	3.3	1.5	
MF-RHT650	8.8	8.1	7.4	6.5	5.7	5.3	4.8	4.3	3.6	1.6	
MF-RHT700	9.51	8.73	7.95	7.0	6.17	5.61	5.15	4.66	3.88	1.73	
MF-RHT750	10.2	9.4	8.6	7.5	6.6	6.1	5.6	5.0	4.1	1.9	
MF-RHT800	10.87	9.98	9.08	8.0	7.06	6.41	5.88	5.33	4.43	1.97	
MF-RHT900	12.21	11.19	10.16	9.0	7.97	7.20	6.56	6.04	5.01	2.19	
MF-RHT1000	13.6	12.5	11.4	10.0	8.8	8.10	7.40	6.60	5.50	2.5	
MF-RHT1100	14.94	13.72	12.49	11.0	9.7	8.82	8.09	7.32	6.09	2.71	
MF-RHT1300	17.7	16.3	14.8	13.0	11.4	10.5	9.6	8.6	7.2	3.3	

MF-RHT Series - High Temperature PTC Resettable Fuses



^{- 17 =} Straight leads where kinked leads are standard

Packaging Quantity

Packaging options	Models	Unit Quantity (Pcs.)		
Bulk	MF-RHT050 ~ MF-RHT800	500	Bag	
Duik	MF-RHT900 ~ MF-RHT1300	MF-RHT900 ~ MF-RHT1300 250		
	MF-RHT050 ~ MF-RHT400	3000		
Tape & Reel	MF-RHT450 ~ MF-RHT700	1500	Reel	
	MF-RHT750 ~ MF-RHT1300	1000		
	MF-RHT050 ~ MF-RHT400	2000		
Ammo-Pack	MF-RHT450 ~ MF-RHT900	1000	Pack	
	MF-RHT1000 ~ MF-RHT1300	500		

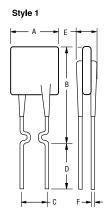
Typical Part Marking Represents total content. Layout may vary. MANUFACTURER'S TRADEMARK PART IDENTIFICATION -RH750 COUNTRY OF 7180S MANUFACTURE DATE CODE · (S = CHINA) (FIRST DIGIT = LAST DIGIT OF YEAR; NEXT THREE DIGITS = EXAMPLE: 7180 = 2017 DAY 180

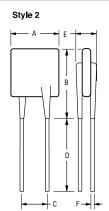
^{*}Packaged per EIA-468

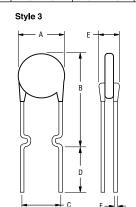
MF-RHT Series - High Temperature PTC Resettable Fuses

Product Dimensions

	Α	В	(D	E	F	Physical (Characteristics
Model	Max.	Max.	Nom.	Tol. ±	Min.	Max.	Nom.	Style	Material
MF-RHT050	7.40 (0.291)	12.7 (0.500)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.51</u> (0.020)	3	Sn/CuFe
MF-RHT070	6.86 (0.27)	10.8 (0.425)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.51</u> (0.020)	1	Sn/CuFe
MF-RHT100	9.70 (0.382)	13.6 (0.535)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.51</u> (0.020)	3	Sn/CuFe
MF-RHT200	9.4 (0.37)	14.0 (0.55)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.51</u> (0.020)	3	Sn/CuFe
MF-RHT200/32	9.4 (0.37)	14.0 (0.55)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.51</u> (0.020)	3	Sn/CuFe
MF-RHT300	8.80 (0.35)	13.8 (0.55)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT400	10.0 (0.394)	15.0 (0.591)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT450	10.4 (0.41)	15.6 (0.61)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT500	11.2 (0.441)	18.9 (0.744)	5.1 (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT550	11.2 (0.441)	18.9 (0.744)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT600	11.2 (0.441)	21.0 (0.827)	<u>5.1</u> (0.201)	0.7 (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT650	12.7 (0.50)	<u>22.2</u> (0.88)	<u>5.1</u> (0.201)	0.7 (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT700	14.0 (0.55)	21.9 (0.862)	<u>5.1</u> (0.201)	0.7 (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT750	14.0 (0.55)	21.9 (0.862)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT800	16.5 (0.65)	22.5 (0.88)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT900	16.5 (0.65)	25.7 (1.012)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT1000	17.5 (0.689)	<u>26.7</u> (0.51)	10.2 (0.402)	<u>0.7</u> (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT1100	21.0 (0.65)	<u>26.1</u> (0.88)	10.2 (0.402)	0.7 (0.028)	7.6 (0.30)	3.0 (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu
MF-RHT1300	23.5 (0.925)	<u>28.7</u> (1.17)	10.2 (0.402)	0.7 (0.028)	7.6 (0.30)	3.6 (0.14)	1.0 (0.040)	2	Sn/Cu







DIMENSIONS: (INCHES)

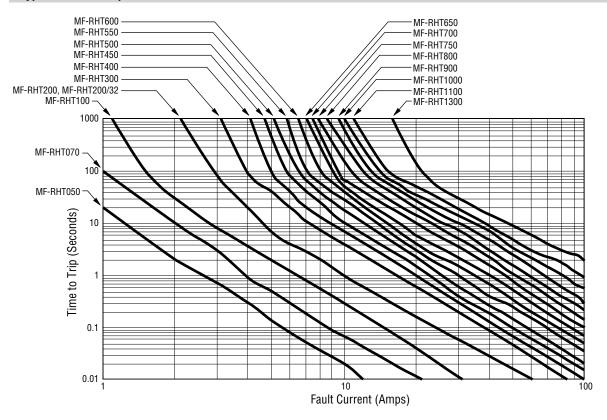
Also available with kinked and straight leads in place of standard leads (see How to Order).

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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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 Tape and Reel Specifications

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Devices taped using EIA-468/IEC 60286-2 standards. See table below and figures for details.

Dimension Description	IEC Mark	EIA Mark	Dimensions	Tolerance
Carrier tape width	W	W	18 (.709)	+1.0/-0.5 (+.039/020)
Hold down tape width	W ₀	W_0	<u>5</u> (.197)	min.
Hold down tape		No p	rotrusion	
Adhesive tape position	W ₂	W ₂	3 (.118)	max.
Sprocket hole position	W ₁	W ₁	9 (.354)	+0.75-0.5 (+.030/020)
Sprocket hole diameter	D ₀	D ₀	<u>4</u> (.157)	±0.2 (±.0078)
Height to seating plane (straight lead)	Н	Н	18 ~ 20 (.709 ~ .787)	
Height to seating plane (formed lead)	H ₀	H ₀	16 (.630)	±0.5 (±.020)
Overall height above abscissa: MF-RHT050 ~ MF-RHT900	H ₁	H ₁	38.5 (1.516)	max.
Overall height above abscissa: MF-RHT1000 ~ MF-RHT1300	H ₁	H ₁	45.0 (1.772)	max.
Cutout length		L	11 (.433)	max.
Sprocket hole pitch: MF-RHT050 ~ MF-RHT900	P ₀	P ₀	12.7 (.500)	±0.3 (±.012)
Sprocket hole pitch: MF-RHT1000 ~ MF-RHT1300	P ₀	P ₀	30.0 (1.18)	±0.6 (±.024)
Device pitch: MF-RHT050 ~ MF-RHT900	Р	Р	<u>25.4</u> (1.00)	±0.6 (±.024)
Device pitch: MF-RHT1000 ~ MF-RHT1300	Р	Р	30.0 (1.18)	±0.6 (±.024)
Pitch tolerance			20 consecutive	±1 (±.039)
Composite tape thickness	t	t	<u>0.9</u> (.035)	max.
Overall tape and lead thickness: MF-RHT050 ~ MF-RHT200/32	t ₁	t ₁	2.0 (.079)	max.
Overall tape and lead thickness: MF-RHT300 ~ MF-RHT1300	t ₁	t ₁	2.3 (.091)	max.
Splice sprocket hole alignment			0	±0.3 (±.012)
Front-to-back deviation	Δ_h	Δ_h	0	±1.0 (±.039)
Side-to-side deviation	$\Delta_{m{p}}$	Δ_p	0	±1.3 (±.051)
Ordinate to adjacent component lead: MF-RHT050 ~ MF-RHT900	P ₁	P ₁	3.81 (.150)	±0.7 (±.028)
Ordinate to adjacent component lead: MF-RHT1000 ~ MF-RHT1300	P ₁	P ₁	9.9 (.390)	±0.7 (±.028)
Lead spacing: MF-RHT050 ~ MF-RHT900	F	F	<u>5.08</u> (.200)	+0.6/-0.2 (+.024/008)
Lead spacing: MF-RHT1000 ~ MF-RHT1300	F	F	10.2 (.400)	+0.6/-0.2 (+.024/008)
— Continued of	n next page —		DIMENSIONS	NANA

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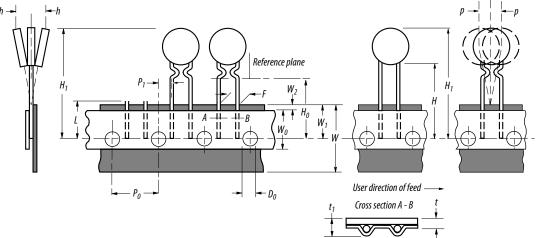
MF-RHT Series Tape and Reel Specifications

Devices taped using EIA-468/IEC 60286-2 standards. See table below and figures for details.

Dimension Description	IEC Mark	EIA Mark	Dimensions	Tolerance
Reel width including flanges and hub	W_4	w ₂	62.0 (2.44)	max
Dimension between flanges (measured at hub)	W_3	w ₁	allow proper reeling	g and unreeling
Reel diameter	А	a	370.0 (14.57)	max.
Space between flanges (at hub, excluding device)			4.75 (.187)	±3.25 (±.128)
Arbor hole diameter	С	С	<u>26.0</u> (1.024)	±12.0 (±.472)
Core diameter	N	n	80 (3.15)	min.
Box dimensions			62 x 372 x 372 (2.44 x 14.6 x 14.6)	max.
Consecutive missing places			3	max.
Empty places per reel			Less than 0.1 %	

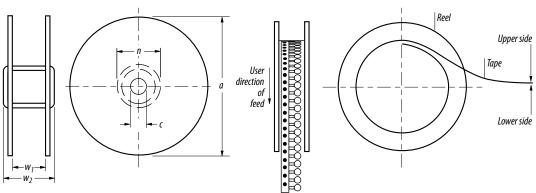
Taped Component Dimensions -

per EIA Mark -Figure 1



Reel Dimensions - per EIA Mark -

Figure 2



MF-RHT SERIES, REV. S, 05/21

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Bourns® Multifuse® PPTC Resettable Fuses

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Application Notice

- Users are responsible for independent and adequate evaluation of Bourns® Multifuse® Polymer PTC devices in the user's application, including the PPTC device characteristics stated in the applicable data sheet.
- Polymer PTC devices must not be allowed to operate beyond their stated maximum ratings. Operation in excess of such
 maximum ratings could result in damage to the PTC device and possibly lead to electrical arcing and/or fire. Circuits with
 inductance may generate a voltage above the rated voltage of the polymer PTC device and should be thoroughly evaluated
 within the user's application during the PTC selection and qualification process.
- Polymer PTC devices are intended to protect against adverse effects of temporary overcurrent or overtemperature
 conditions up to rated limits and are not intended to serve as protective devices where overcurrent or overvoltage conditions
 are expected to be repetitive or prolonged.
- In normal operation, polymer PTC devices experience thermal expansion under fault conditions. Thus, a polymer PTC
 device must be protected against mechanical stress, and must be given adequate clearance within the user's application to
 accommodate such thermal expansion. Rigid potting materials or fixed housings or coverings that do not provide adequate
 clearance should be thoroughly examined and tested by the user, as they may result in the malfunction of polymer PTC
 devices if the thermal expansion is inhibited.
- Exposure to lubricants, silicon-based oils, solvents, gels, electrolytes, acids, and other related or similar materials may adversely affect the performance of polymer PTC devices.
- Aggressive solvents may adversely affect the performance of polymer PTC devices. Conformal coating, encapsulating, potting, molding, and sealing materials may contain aggressive solvents including but not limited to xylene and toluene, which are known to cause adverse effects on the performance of polymer PTCs. Such aggressive solvents must be thoroughly cured or baked to ensure their complete removal from polymer PTCs to minimize the possible adverse effect on the device.
- Recommended storage conditions should be followed at all times. Such conditions can be found on the applicable data sheet and on the Multifuse® Polymer PTC Moisture/Reflow Sensitivity Classification (MSL) note: https://www.bourns.com/docs/RoHS-MSL/msl mf.pdf

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The characteristics and parameters of a Bourns® product set forth in its data sheet are based on laboratory conditions, and statements regarding the suitability of products for certain types of applications are based on Bourns' knowledge of typical requirements in generic applications. The characteristics and parameters of a Bourns® product in a user application may vary from the data sheet characteristics and parameters due to (i) the combination of the Bourns® product with other components in the user's application, or (ii) the environment of the user application itself. The characteristics and parameters of a Bourns® product also can and do vary in different applications and actual performance may vary over time. Users should always verify the actual performance of the Bourns® product in their specific devices and applications, and make their own independent judgments regarding the amount of additional test margin to design into their device or application to compensate for differences between laboratory and real world conditions.

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