

## **Features**

- Compliant with AEC-Q200 Rev-C- Stress Test Qualification for Passive Components in Automotive Applications
- Operating temperature range up to 125 °C

MF-RHT Series - High Temperature PTC Resettable Fuses

- 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

## **Electrical Characteristics**

Model	V max. Volts		Ihold	l <sub>trip</sub>	Resis	tance	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 <sub>Min.</sub>	R <sub>1Max.</sub> (Post Trip)		Max.	Тур.
MF-RHT050	30	40	0.5	0.92	0.4800	1.10	2.5	2.5	0.9
MF-RHT070	16	40	0.7	1.4	0.3000	0.80	3.5	4.0	1.4
MF-RHT100	30	40	1.0	1.8	0.1800	0.43	5.0	5.2	1.4
MF-RHT200	16	100	2.0	3.8	0.0450	0.110	12.5	3.0	1.4
MF-RHT200/32	32	50	2.0	3.8	0.0450	0.110	12.5	3.0	1.4
MF-RHT300	16	100	3.0	6.0	0.0330	0.079	15.0	5.0	3.0
MF-RHT400	16	100	4.0	7.5	0.0240	0.060	20.0	5.0	3.3
MF-RHT450	16	100	4.5	7.8	0.0220	0.054	22.5	3.0	3.6
MF-RHT500	16	100	5.0	9.0	0.0175	0.045	25.0	9.0	3.6
MF-RHT550	16	100	5.5	10.0	0.0150	0.037	27.5	6.0	3.5
MF-RHT600	16	100	6.0	10.8	0.0130	0.0215	30.0	5.0	4.1
MF-RHT650	16	100	6.5	12.0	0.0110	0.026	32.5	5.5	4.3
MF-RHT700	16	100	7.0	13.0	0.0100	0.025	35.0	7.0	4.0
MF-RHT750	16	100	7.5	13.1	0.0094	0.022	37.5	7.0	4.5
MF-RHT800	16	100	8.0	15.0	0.0080	0.020	40.0	8.0	4.2
MF-RHT900	16	100	9.0	16.5	0.0074	0.017	45.0	10.0	5.0
MF-RHT1000	16	100	10.0	18.5	0.0062	0.015	50.0	9.0	5.3
MF-RHT1100	16	100	11.0	20.0	0.0055	0.013	55.0	11.0	5.5
MF-RHT1300	16	100	13.0	24.0	0.0041	0.010	60.0	13.0	6.9

#### **Environmental Characteristics**

Operating Temperature		
	+85 °C, 1000 hours	+5 % typical resistance change
, , , ,	+85 °C, 85 % R.H. 1000 hours	,
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
Moisture Sensitivity Level (MSL)	Level 1	-
ESD Classification - HBM	Class 6	

### 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	Rmin $\leq R \leq R1$ max
Time to Trip	At specified current, Vmax, 23 °C	T $\leq$ max. time to trip (seconds)
	30 min. at Ihold	
Trip Cycle Life	Vmax, Imax, 100 cycles	No arcing or burning
Trip Endurance	Vmax, 48 hours	No arcing or burning
Solderability	MIL-STD-202, Method 208	95 % min. coverage

\* 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 (CI) content is 1500 ppm or less.

and Chiofine (ci) content is 1300 ppin or ress. 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 disclaimers as set forth on the last page of this document, and at <u>www.bourns.com/legal/disclaimer.pdf</u>.

## **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 - High Temperature PTC Resettable Fuses**

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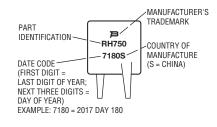
## Thermal Derating Chart - Ihold (Amps)

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-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	2.00	1.77	1.60	1.46	1.34	1.11	0.49	
MF-RHT200/32	2.71	2.49	2.26	2.00	1.77	1.60	1.46	1.34	1.11	0.49	
MF-RHT300	4.07	3.74	3.41	3.00	2.65	2.40	2.21	2.00	1.66	0.74	
MF-RHT400	5.57	5.11	4.65	4.00	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	

#### How to Order MF - RHT 200/32 -- 14 Multifuse® Product Designator Series RHT = High Temperature Radial Leaded Component Hold Current, Ihold 050 - 1300 (0.50 - 13.00 Amps) Higher Voltage Option Blank = Standard Voltage /32 = 32 Volts Packaging Options — Blank = Bulk Packaging - 2 = Tape & Reel\* - AP = Ammo-Pak\* Part Number Suffix Option -- 14 = Kinked Leads in Place of Std. Straight Leads - 17 = Straight Leads in Place of Std. Kinked Leads

### **Typical Part Marking**

Represents total content. Layout may vary.



\*Packaged per EIA 486-B

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## **MF-RHT Series - High Temperature PTC Resettable Fuses**

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## **Product Dimensions**

Model	Α	В	(	0	D	E	F	Physical Characteristic		
Model	Max.	Max.	Nom.	Tol. ±	Min.	Max.	Nom.	Style	Material	
MF-RHT050	7.40	12.7	5.1	0.7	7.6	3.0	0.51	0		
WF-RH1050	(0.291)	(0.500)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)	3	Sn/CuFe	
MF-RHT070	6.86	10.8	5.1	0.7	7.6	3.0	0.51	1	Sn/CuFe	
	(0.27)	(0.425)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)	1	Sil/Cure	
MF-RHT100	9.70	13.6	5.1	0.7	7.6	3.0	0.51	3	Sn/CuFe	
	(0.382)	(0.535)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)			
MF-RHT200	9.4	14.0				3.0	0.51	3	Sn/CuFe	
	(0.37)	(0.55)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)	Ŭ		
MF-RHT200/32	9.4	14.0		0.7	7.6	3.0	0.51	3	Sn/CuFe	
	(0.37)	(0.55)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)			
MF-RHT300	8.80	13.8	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.35)	(0.55)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)			
MF-RHT400	10.0	15.0	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.394)	(0.591)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)	_		
MF-RHT450	10.4	15.6	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.41)	(0.61)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)			
MF-RHT500	11.2	18.9	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.441)	(0.744)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)			
MF-RHT550	11.2	18.9	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.441)	(0.744)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)			
MF-RHT600	$\frac{11.2}{(0.441)}$	$\frac{21.0}{(0.827)}$	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	<u>7.6</u> (0.30)	<u>3.0</u> (0.12)	$\frac{0.81}{(0.032)}$	2	Sn/Cu	
	· · · · ·					· · · ·				
MF-RHT650	<u>12.7</u> (0.50)	22.2 (0.88)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	<u>7.6</u> (0.30)	<u>3.0</u> (0.12)	<u>0.81</u> (0.032)	2	Sn/Cu	
		21.9	5.1	0.7		3.0	0.81			
MF-RHT700	14.0 (0.55)	$\frac{21.9}{(0.862)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	<u>7.6</u> (0.30)	(0.12)	$\frac{0.81}{(0.032)}$	2	Sn/Cu	
	· · · · ·	· · · /	· · · · · ·	· · · · ·	· · · /	· · · /	· · · · /			
MF-RHT750	14.0 (0.55)	23.5 (0.93)	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	<u>7.6</u> (0.30)	<u>3.0</u> (0.12)	$\frac{0.81}{(0.032)}$	2	Sn/Cu	
	16.5	22.5	5.1	0.7	7.6	3.0	0.81			
MF-RHT800	(0.65)	(0.88)	$\frac{3.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	(0.30)	(0.12)	$\frac{0.01}{(0.032)}$	2	Sn/Cu	
	16.5	25.7	5.1	0.7	7.6	3.0	0.81			
MF-RHT900	(0.65)	$\frac{23.7}{(1.012)}$	$\frac{3.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	(0.30)	(0.12)	$\frac{0.01}{(0.032)}$	2	Sn/Cu	
MF-RHT1000	17.5	26.7	10.2	0.7	7.6	3.0	0.81			
	$\frac{17.5}{(0.689)}$	(0.51)	$\frac{10.2}{(0.402)}$	$\frac{0.7}{(0.028)}$	(0.30)	(0.12)	$\frac{0.01}{(0.032)}$	2	Sn/Cu	
MF-RHT1100	21.0	26.1	10.2	0.7	7.6	3.0	0.81			
	(0.65)	(0.88)	$\frac{10.2}{(0.402)}$	(0.028)	(0.30)	(0.12)	$\frac{0.01}{(0.032)}$	2	2	2
	23.5	28.7	10.2	0.7	7.6	3.6	1.0			
MF-RHT1300	$\frac{20.0}{(0.925)}$	(1.17)	$\frac{10.2}{(0.402)}$	$\frac{0.7}{(0.028)}$	(0.30)	(0.14)	$\frac{1.0}{(0.040)}$	2	Sn/Cu	

#### Packaging:

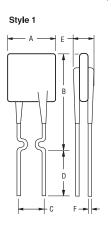
MF-RHT050~MF-RHT800 = 500 pcs. per bag; MF-RHT900~MF-RHT1300 = 250 pcs. per bag BULK: TAPE & REEL: MF-RHT050~MF-RHT400 = 3000 pcs. per reel; MF-RHT450~MF-RHT700 = 1500 pcs. per reel; MF-RHT750~MF-RHT1300 = 1000 pcs. per reel

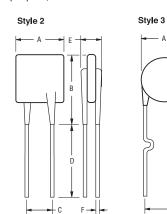
AMMO-PACK: MF-RHT050~MF-RHT400 = 2000 pcs. per pack; MF-RHT450~MF-RHT900 = 1000 pcs. per pack, MF-RHT1000~MF-RHT1300 = 500 pcs. per pack

F

D

- C





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

DIMENSIONS:

(INCHES)

0.51 (24AWG)

0.81 (20AWG)

1.0 (18AWG)

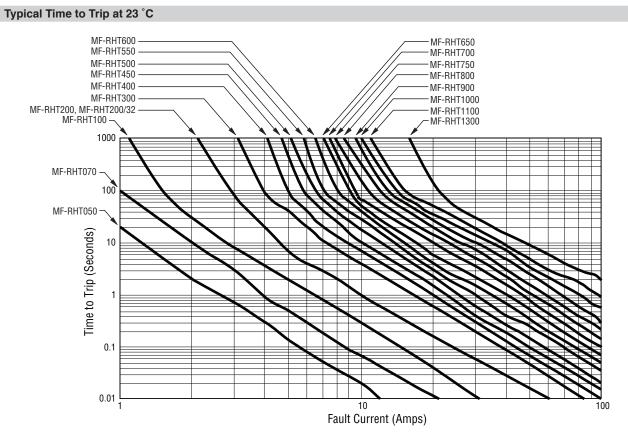
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# MF-RHT Series - High Temperature PTC Resettable Fuses

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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. M, 11/17

# **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.

	IEC	EIA	Dimensions		
Dimension Description	Mark	Mark	Dimensions	Tolerance	
Carrier tape width	W	W	<u>18</u> (.709)	<u>-0.5/+1.0</u> (-0.02/+.039)	
Hold down tape width	W <sub>0</sub>	W4	<u>11</u> (.433)	min.	
Hold down tape			No protrusion		
Top distance between tape edges	W2	W <sub>6</sub>	<u>3</u> (.118)	max.	
Sprocket hole position	W <sub>1</sub>	W5	<u>9</u> (.354)	-0.5/+0.75 (-0.02/+0.03)	
Sprocket hole diameter	D <sub>0</sub>	D <sub>0</sub>	4(.157)	<u>±0.2</u> (±.0078)	
Abscissa to plane (straight lead)	Н	Н	<u>18.5</u> (.728)	<u>±3.0</u> (±.118)	
Abscissa to plane (kinked lead)	H <sub>0</sub>	H <sub>0</sub>	<u>16</u> (.63)	<u>±0.5</u> (±.02)	
Abscissa to top: MF-RHT050 ~ MF-RHT450	H <sub>1</sub>	H <sub>1</sub>	<u>32.2</u> (1.268)	max.	
Abscissa to top: MF-RHT500 ~ MF-RHT1300	H <sub>1</sub>	H <sub>1</sub>	<u>45.0</u> (1.837)	max.	
Overall width w/lead protrusion: MF-RHT050 ~ MF-RHT450		C <sub>1</sub>	<u>42.5</u> (1.673)	max.	
Overall width w/lead protrusion: MF-RHT500 ~ MF-RHT1300		C <sub>1</sub>	<u>55.0</u> (2.165)	max.	
Overall width w/o lead protrusion: MF-RHT050 ~ MF-RHT450		C2	<u>42.5</u> (1.673)	max.	
Overall width w/o lead protrusion: MF-RHT500 ~ MF-RHT1300		C2	<u>54.0</u> (2.126)	max.	
Lead protrusion	I <sub>1</sub>	L <sub>1</sub>	<u>1.0</u> (.039)	max.	
Protrusion of cutout	L	L	<u>11</u> (.433)	max.	
Protrusion beyond hold-down tape	I2	I2	Not specified		
Sprocket hole pitch	P <sub>0</sub>	P <sub>0</sub>	12.7 (0.5)	$\frac{\pm 0.3}{(\pm .012)}$	
Pitch tolerance			20 consecutive	<u>±1</u> (±.039)	
Device pitch			25.4 (1.0)	$\frac{\pm 0.6}{(\pm .024)}$	
Tape thickness	t	t	0.9 (.035)	max.	
Tape thickness with splice: MF-RHT050 ~ MF-RHT200		t1	<u>1.5</u> (.059)	max.	
Tape thickness with splice: MF-RHT300 ~ MF-RHT1300		t1	<u>2.3</u> (.091)	max.	
Splice sprocket hole alignment			<u>4.0</u> (.157)	±0.2 (±.008)	
Body lateral deviation	$\Delta_h$	$\Delta_h$	0	<u>±1</u> (±.039)	
Body tape plane deviation	$\Delta_p$	$\Delta_p$	0	$\frac{\pm 0.3}{(\pm .012)}$	
Ordinate to adjacent component lead	P <sub>1</sub>	P <sub>1</sub>	<u>3.81</u> (.015)	<u>±0.07</u> (±.028)	
			()	()	

MM (INCHES) DIMENSIONS:

# **MF-RHT Series Tape and Reel Specifications**

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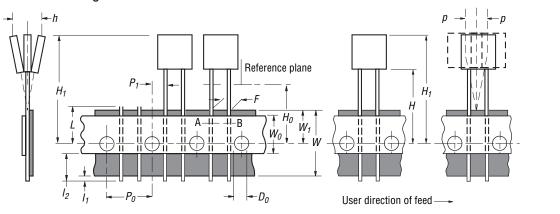
MM (INCHES)

DIMENSIONS:

	IEC	EIA	Dimensions		
Dimension Description	Mark	Mark	Dimensions	Tolerance	
Lead spacing: MF-RHT050 ~ MF-RHT900	F	F	5.08 (0.2)	-0.2/+0.8 (-0.006/+0.031)	
ead spacing: MF-RHT1000 ~ MF-RHT1300	F	F	<u>10.2</u> (0.402)	-0.2/+0.8 (-0.006/+0.031)	
Reel width: MF-RHT050 ~ MF-RHT450	W	W2	<u>56</u> (2.20)	max.	
Reel width: MF-RHT500 ~ MF-RHT1300	W	W2	<u>63.5</u> (2.50)	max.	
Reel diameter	d	а	<u>370.0</u> (14.57)	max.	
Space between flanges less device	W <sub>1</sub>	h	4.75 (.187)	$\frac{\pm 3.25}{(\pm .128)}$	
Arbor hole diameter	f	С	<u>26.0</u> (1.02)	<u>±12.0</u> (±.472)	
Core diameter	h	п	<u>80.0</u> (3.15)	max.	
Зох			$\frac{62}{(2.44)} \frac{355}{(14.0)} \frac{345}{(13.12)}$		
Consecutive missing places			3	max.	
Empty places per reel			Not specified		

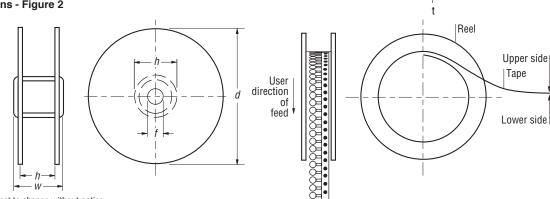
#### **Taped Component Dimensions - Figure 1**

h



Cross section A - B

#### **Reel Dimensions - Figure 2**



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