

MF-RHT Series - High Temperature PTC Resettable Fuses

BOURNS®

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	$R_{min} \leq R \leq R_{max}$
Time to Trip	At specified current, V_{max} , 23 °C	$T \leq \text{max. time to trip (seconds)}$
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 \pm 5 °C, 5 seconds	95 % min. coverage

Thermal Derating Table - 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-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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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MF-RHT Series - High Temperature PTC Resettable Fuses

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How to Order

MF - RHT 200 /32 - - 14

Multifuse® Product Designator _____

Series _____
 RHT = High Temperature Radial Leded Component

Hold Current, I_{hold} _____
 050 - 1300 (0.50 - 13.00 Amps)

Higher Voltage Option _____
 Blank = Standard Voltage
 /32 = 32 Volts

Packaging Options _____
 - 0 = Bulk Packaging
 - 2 = Tape & Reel*
 - AP = Ammo-Pak*

Part Number Suffix Option _____
 - 14 = Kinked leads where straight leads are standard
 - 17 = Straight leads where kinked leads are standard

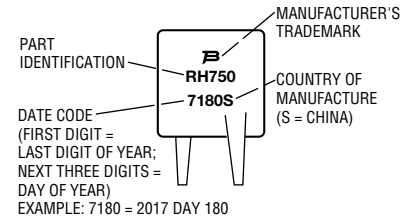
*Packaged per EIA-468

Packaging Quantity

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

Typical Part Marking

Represents total content. Layout may vary.



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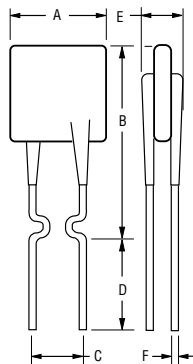
MF-RHT Series - High Temperature PTC Resettable Fuses

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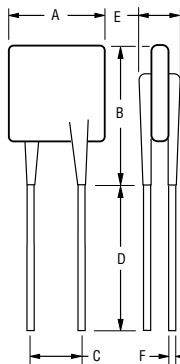
Product Dimensions

Model	A	B	C		D	E	F	Physical Characteristics	
	Max.	Max.	Nom.	Tol. ±	Min.	Max.	Nom.	Style	Material
MF-RHT050	$\frac{7.40}{(0.291)}$	$\frac{12.7}{(0.500)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.51}{(0.020)}$	3	Sn/CuFe
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-RHT100	$\frac{9.70}{(0.382)}$	$\frac{13.6}{(0.535)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.51}{(0.020)}$	3	Sn/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/CuFe
MF-RHT200/32	$\frac{9.4}{(0.37)}$	$\frac{14.0}{(0.55)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.51}{(0.020)}$	3	Sn/CuFe
MF-RHT300	$\frac{8.80}{(0.35)}$	$\frac{13.8}{(0.55)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT400	$\frac{10.0}{(0.394)}$	$\frac{15.0}{(0.591)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-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-RHT500	$\frac{11.2}{(0.441)}$	$\frac{18.9}{(0.744)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT550	$\frac{11.2}{(0.441)}$	$\frac{18.9}{(0.744)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT600	$\frac{11.2}{(0.441)}$	$\frac{21.0}{(0.827)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	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-RHT700	$\frac{14.0}{(0.55)}$	$\frac{21.9}{(0.862)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT750	$\frac{14.0}{(0.55)}$	$\frac{21.9}{(0.862)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT800	$\frac{16.5}{(0.65)}$	$\frac{22.5}{(0.88)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT900	$\frac{16.5}{(0.65)}$	$\frac{25.7}{(1.012)}$	$\frac{5.1}{(0.201)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT1000	$\frac{17.5}{(0.689)}$	$\frac{26.7}{(0.51)}$	$\frac{10.2}{(0.402)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	2	Sn/Cu
MF-RHT1100	$\frac{21.0}{(0.65)}$	$\frac{26.1}{(0.88)}$	$\frac{10.2}{(0.402)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	$\frac{3.0}{(0.12)}$	$\frac{0.81}{(0.032)}$	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

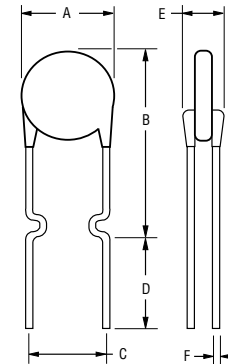
Style 1



Style 2



Style 3



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

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

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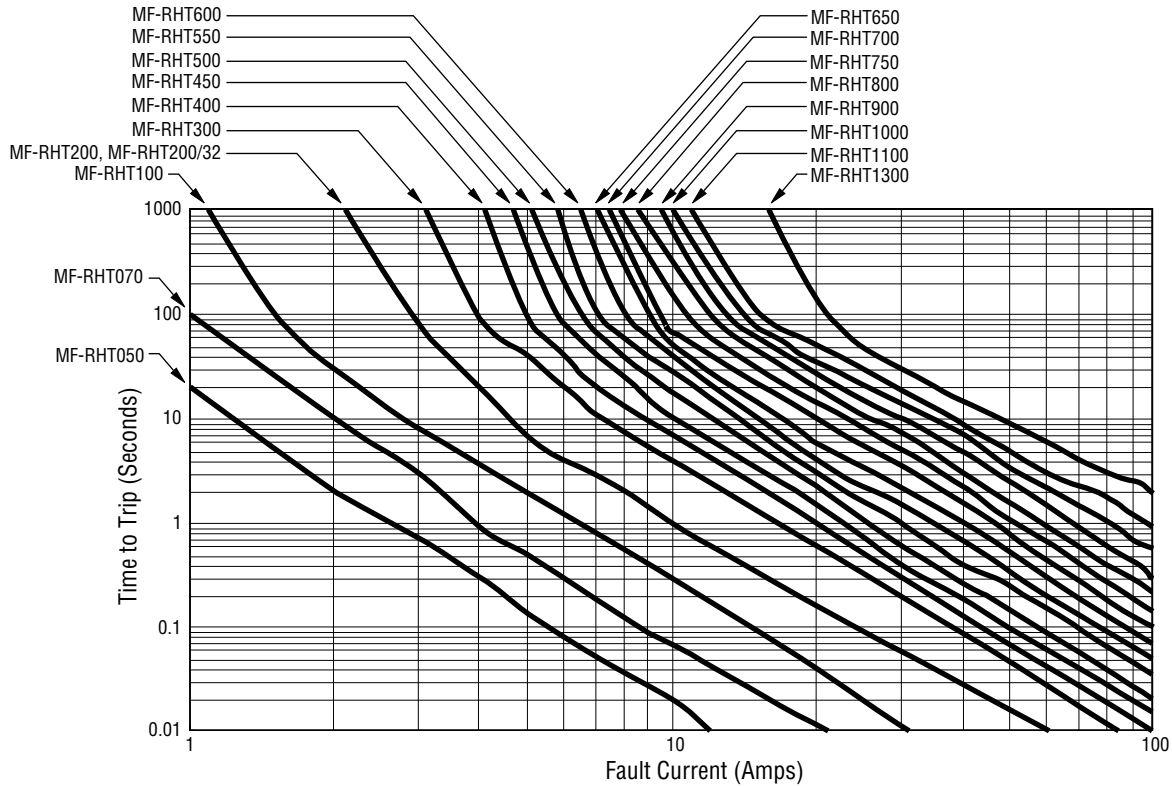
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Typical Time to Trip at 23 °C



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	$\frac{18}{(.709)}$	$\frac{+1.0/-0.5}{(+.039/- .020)}$
Hold down tape width	W_0	W_0	$\frac{5}{(.197)}$	min.
Hold down tape	No protrusion			
Adhesive tape position	W_2	W_2	$\frac{3}{(.118)}$	max.
Sprocket hole position	W_1	W_1	$\frac{9}{(.354)}$	$\frac{+0.75-0.5}{(+.030/- .020)}$
Sprocket hole diameter	D_0	D_0	$\frac{4}{(.157)}$	$\frac{+0.2}{(\pm .0078)}$
Height to seating plane (straight lead)	H	H	$\frac{18 \sim 20}{(.709 \sim .787)}$	
Height to seating plane (formed lead)	H_0	H_0	$\frac{16}{(.630)}$	$\frac{+0.5}{(\pm .020)}$
Overall height above abscissa: MF-RHT050 ~ MF-RHT900	H_1	H_1	$\frac{38.5}{(1.516)}$	max.
Overall height above abscissa: MF-RHT1000 ~ MF-RHT1300	H_1	H_1	$\frac{45.0}{(1.772)}$	max.
Cutout length		L	$\frac{11}{(.433)}$	max.
Sprocket hole pitch: MF-RHT050 ~ MF-RHT900	P_0	P_0	$\frac{12.7}{(.500)}$	$\frac{+0.3}{(\pm .012)}$
Sprocket hole pitch: MF-RHT1000 ~ MF-RHT1300	P_0	P_0	$\frac{30.0}{(1.18)}$	$\frac{+0.6}{(\pm .024)}$
Device pitch: MF-RHT050 ~ MF-RHT900	P	P	$\frac{25.4}{(1.00)}$	$\frac{+0.6}{(\pm .024)}$
Device pitch: MF-RHT1000 ~ MF-RHT1300	P	P	$\frac{30.0}{(1.18)}$	$\frac{+0.6}{(\pm .024)}$
Pitch tolerance			20 consecutive	$\frac{\pm 1}{(\pm .039)}$
Composite tape thickness	t	t	$\frac{0.9}{(.035)}$	max.
Overall tape and lead thickness: MF-RHT050 ~ MF-RHT200/32	t_1	t_1	$\frac{2.0}{(.079)}$	max.
Overall tape and lead thickness: MF-RHT300 ~ MF-RHT1300	t_1	t_1	$\frac{2.3}{(.091)}$	max.
Splice sprocket hole alignment			0	$\frac{+0.3}{(\pm .012)}$
Front-to-back deviation	Δ_h	Δ_h	0	$\frac{+1.0}{(\pm .039)}$
Side-to-side deviation	Δ_p	Δ_p	0	$\frac{+1.3}{(\pm .051)}$
Ordinate to adjacent component lead: MF-RHT050 ~ MF-RHT900	P_1	P_1	$\frac{3.81}{(.150)}$	$\frac{+0.7}{(\pm .028)}$
Ordinate to adjacent component lead: MF-RHT1000 ~ MF-RHT1300	P_1	P_1	$\frac{9.9}{(.390)}$	$\frac{+0.7}{(\pm .028)}$
Lead spacing: MF-RHT050 ~ MF-RHT900	F	F	$\frac{5.08}{(.200)}$	$\frac{+0.6/-0.2}{(+.024/- .008)}$
Lead spacing: MF-RHT1000 ~ MF-RHT1300	F	F	$\frac{10.2}{(.400)}$	$\frac{+0.6/-0.2}{(+.024/- .008)}$

— Continued on next page —

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

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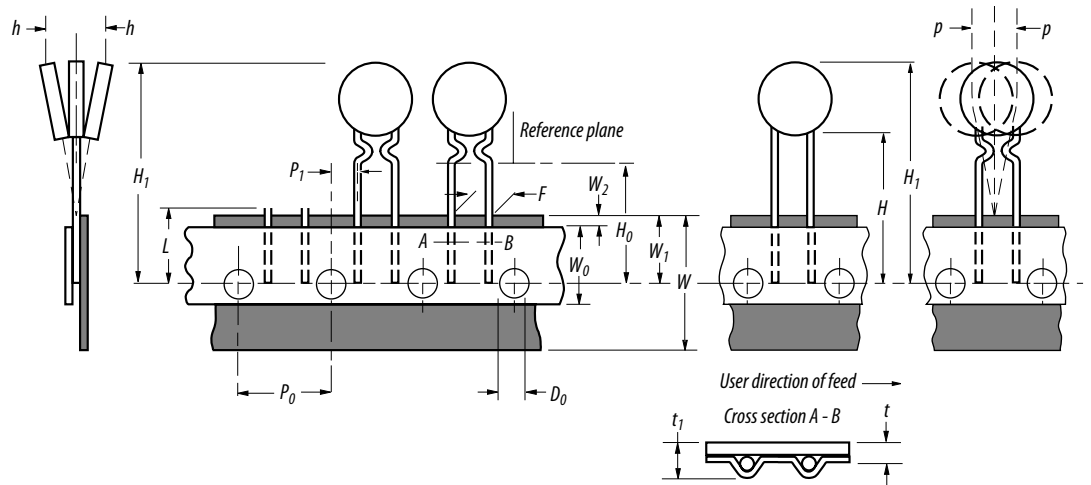
MF-RHT Series Tape and Reel Specifications

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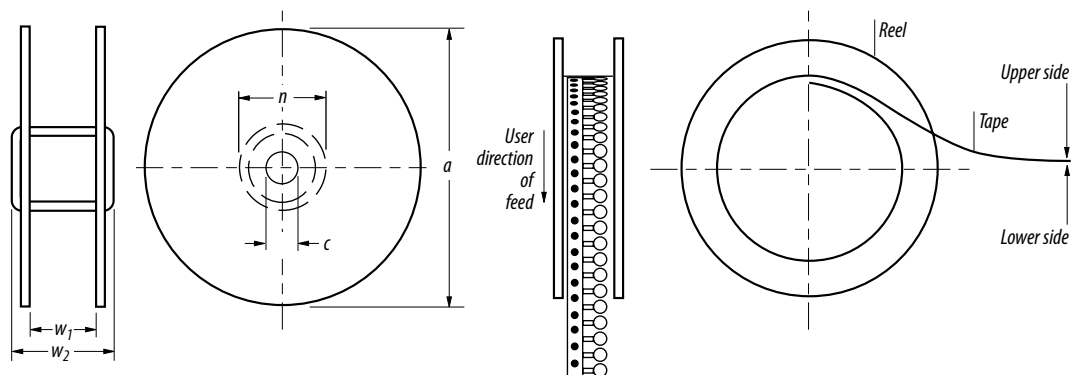
Devices taped using EIA-468/IEC 60286-2 standards. See table below and figures for details.

Dimension Description	IEC Mark	EIA Mark	Dimensions	Tolerance
Reel width including flanges and hub	W_4	w_2	$\frac{62.0}{(2.44)}$	max
Dimension between flanges (measured at hub)	W_3	w_1	allow proper reeling and unreeling	
Reel diameter	A	a	$\frac{370.0}{(14.57)}$	max.
Space between flanges (at hub, excluding device)			$\frac{4.75}{(.187)}$	± 3.25 ($\pm .128$)
Arbor hole diameter	C	c	$\frac{26.0}{(1.024)}$	± 12.0 ($\pm .472$)
Core diameter	N	n	$\frac{80}{(3.15)}$	min.
Box dimensions			$\frac{62 \times 372 \times 372}{(2.44 \times 14.6 \times 14.6)}$	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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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

MFAN 12/18

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The use and level of testing applicable to Bourns® custom products shall be negotiated on a case-by-case basis by Bourns and the user for which such Bourns® custom products are specially designed. Absent a written agreement between Bourns and the user regarding the use and level of such testing, the above provisions applicable to Bourns® standard products shall also apply to such Bourns® custom products.

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