





Features

- Compliant with AEC-Q200 Rev-D Stress Test Qualification for Passive Components in Automotive Applications
- Compact design to save board space - 1206 footprint
- Small size results in very fast time to react to fault events
- Symmetrical design
- Low profile
- RoHS compliant* and halogen free**
- Agency recognition:  

MF-NSMF 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	Agency Recognition	
			at 23 °C		Ohms at 23 °C		at 23 °C		Watts at 23 °C	cUL	TÜV
			Amps	Amps	R _{Min.}	R _{1Max.}	Amps	Seconds	Typ.	E174545	R 50256634
MF-NSMF012	30.0	10	0.12	0.29	1.35	8.50	1.0	0.20	0.6	✓	✓
MF-NSMF016	30.0	10	0.16	0.37	0.70	6.00	1.0	0.30	0.6	✓	✓
MF-NSMF020	24.0	10	0.20	0.46	0.60	2.60	1.0	0.60	0.6	✓	✓
MF-NSMF020X	30.0	60	0.20	0.40	0.60	3.30	1.0	0.60	0.6	✓	✓
MF-NSMF025X	16.0	20	0.25	0.50	0.45	2.30	8.0	0.08	0.6	✓	✓
MF-NSMF035	6.0	100	0.35	0.75	0.30	1.20	8.0	0.10	0.6	✓	✓
MF-NSMF035X	16.0	20	0.35	0.75	0.30	1.40	3.5	0.14	0.6	✓	✓
MF-NSMF050	13.2	100	0.50	1.00	0.15	0.70	8.0	0.10	0.6	✓	✓
MF-NSMF075	6.0	100	0.75	1.50	0.10	0.40	8.0	0.20	0.6	✓	✓
MF-NSMF110	6.0	100	1.10	2.20	0.06	0.20	8.0	0.10	0.6	✓	✓
MF-NSMF125	6.0	100	1.25	2.50	0.05	0.14	8.0	0.20	0.6	✓	✓
MF-NSMF150	6.0	100	1.50	3.00	0.03	0.13	8.0	0.30	0.6	✓	✓
MF-NSMF175	6.0	100	1.75	3.50	0.02	0.085	8.0	1.00	0.7	✓	✓
MF-NSMF200	6.0	100	2.00	4.00	0.02	0.085	8.0	1.00	0.7	✓	✓

Environmental Characteristics

Item	Condition	Criteria
Operating Temperature	-40 °C to +85 °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, 20 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:



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 (Cl) 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.

Applications

- USB port protection - USB 2.0, 3.0 & OTG
- HDMI 1.4 Source protection
- PC motherboards - Plug and Play protection
- Mobile phones - Battery and port protection
- PDAs / digital cameras
- Game console port protection

MF-NSMF Series - PTC Resettable Fuses

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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, still air	$T \leq$ max. time to trip (seconds)
Hold Current	30 min. at I_{hold} , still air	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , I_{max} , 48 hours	No arcing or burning
Solderability	245 °C ± 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
MF-NSMF012	0.19	0.17	0.15	0.12	0.11	0.10	0.09	0.08	0.07
MF-NSMF016	0.21	0.20	0.18	0.16	0.14	0.13	0.12	0.11	0.09
MF-NSMF020	0.30	0.27	0.24	0.20	0.18	0.16	0.14	0.12	0.11
MF-NSMF020X	0.30	0.27	0.24	0.20	0.18	0.16	0.14	0.12	0.10
MF-NSMF025X	0.39	0.35	0.31	0.25	0.23	0.21	0.18	0.16	0.13
MF-NSMF035	0.51	0.46	0.40	0.35	0.30	0.27	0.24	0.22	0.18
MF-NSMF035X	0.51	0.46	0.40	0.35	0.30	0.27	0.24	0.22	0.18
MF-NSMF050	0.76	0.68	0.59	0.50	0.44	0.40	0.35	0.32	0.26
MF-NSMF075	1.11	1.00	0.85	0.75	0.67	0.61	0.52	0.50	0.42
MF-NSMF110	1.64	1.46	1.30	1.10	0.92	0.83	0.80	0.65	0.52
MF-NSMF125	1.84	1.66	1.47	1.25	1.11	1.02	0.91	0.82	0.69
MF-NSMF150	2.20	1.99	1.77	1.50	1.34	1.23	1.10	1.01	0.84
MF-NSMF175	2.52	2.28	1.99	1.75	1.57	1.45	1.32	1.21	1.04
MF-NSMF200	2.88	2.61	2.28	2.00	1.80	1.66	1.51	1.39	1.19

How to Order

MF - NSMF 020 X - 2

Multifuse® Product Designator _____

Series _____
NSMF = 1206 Surface Mount Component

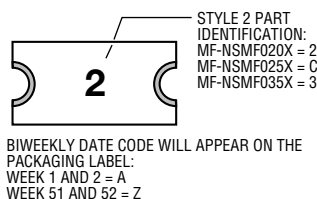
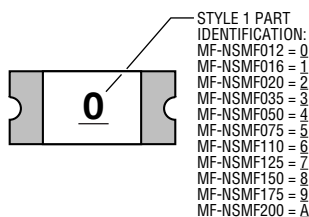
Hold Current, I_{hold} _____
012-200 (0.12 Amps - 2.00 Amps)

Options _____
____ = Standard
X = Multifuse® freeXpansion Design™

Packaging _____
-2 = Tape and Reel
Packaged per EIA 481

Typical Part Marking

Represents total content. Layout may vary.



Packaging Quantity

3000 pcs. per reel

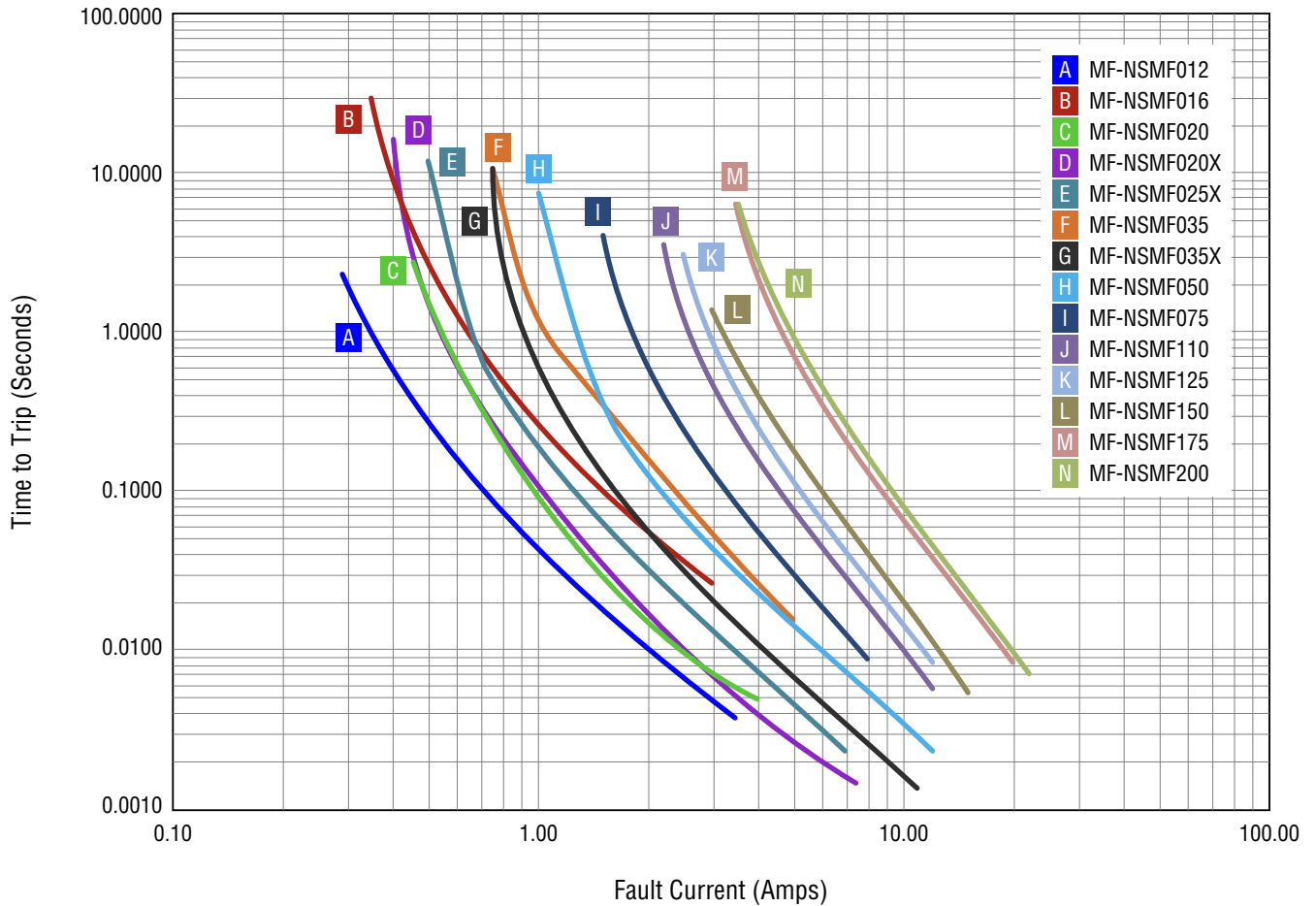
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MF-NSMF Series - PTC Resettable Fuses



Typical Time to Trip at 23 °C



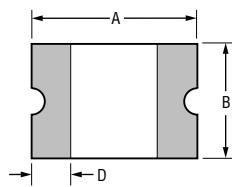
MF-NSMF Series - PTC Resettable Fuses

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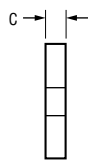
Product Dimensions

Style 1

Top and Bottom View



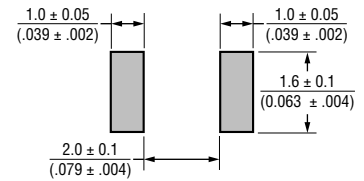
Side View



Terminal material:

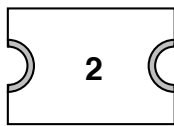
Electroless Ni under immersion Au

Recommended Pad Layout

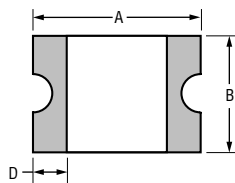


Style 2

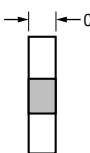
Top View



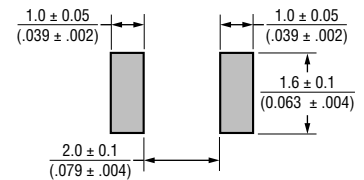
Bottom View



Side View



Recommended Pad Layout



Model	A		B		C		D	Style
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
MF-NSMF012	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.70}{(0.028)}$	$\frac{1.10}{(0.043)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF016	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.48}{(0.019)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF020	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.48}{(0.019)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF020X	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	2
MF-NSMF025X	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	2
MF-NSMF035	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.48}{(0.019)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF035X	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	2
MF-NSMF050	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.48}{(0.019)}$	$\frac{0.85}{(0.033)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF075	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.70}{(0.028)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF110	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.70}{(0.028)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF125	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.70}{(0.028)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF150	$\frac{3.00}{(0.118)}$	$\frac{3.40}{(0.134)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.40}{(0.016)}$	$\frac{0.70}{(0.028)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF175	$\frac{3.00}{(0.118)}$	$\frac{3.50}{(0.138)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.70}{(0.028)}$	$\frac{1.60}{(0.063)}$	$\frac{0.25}{(0.010)}$	1
MF-NSMF200	$\frac{3.00}{(0.118)}$	$\frac{3.50}{(0.138)}$	$\frac{1.40}{(0.055)}$	$\frac{1.80}{(0.071)}$	$\frac{0.70}{(0.028)}$	$\frac{1.60}{(0.063)}$	$\frac{0.25}{(0.010)}$	1

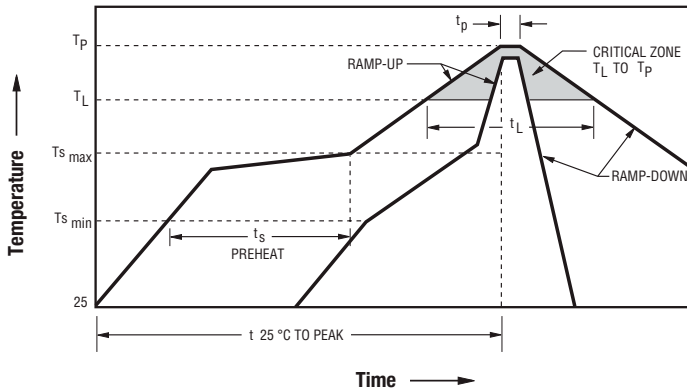
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

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Users should verify actual device performance in their specific applications.

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Solder Reflow Recommendations



Notes:

- MF-NSMF models are intended for reflow soldering (including, but not limited to heating plate, hot air, IR, nitrogen, and vapor phase).
- Wave soldering is permissible only if the device is on the top of the PCB, opposite the heat source.
- Hand soldering is not recommended for these devices.
- All temperatures refer to the topside of the device, measured on the device body surface.
- If reflow temperatures exceed the recommended profile, devices may not meet the published specifications.
- Compatible with Pb and Pb-free solder reflow profiles.
- Excess solder may cause a short circuit.
- Please refer to the [Multifuse® Polymer PTC Resettable Fuse Soldering Recommendations](#) for more details.

Profile Feature	Pb-Free Assembly
Average Ramp-Up Rate ($T_{s_{max}}$ to T_p)	3 °C / second max.
PREHEAT: Temperature Min. ($T_{s_{min}}$) Temperature Max. ($T_{s_{max}}$) Time ($T_{s_{min}}$ to $T_{s_{max}}$) (t_s)	150 °C 200 °C 60~180 seconds
TIME MAINTAINED ABOVE: Temperature (T_L) Time (t_L)	217 °C 60~150 seconds
Peak Temperature (T_p)	260 °C
Time within 5 °C of Actual Peak Temperature (t_p)	20~40 seconds
Ramp-Down Rate	6 °C / second max.
Time 25 °C to Peak Temperature	8 minutes max.

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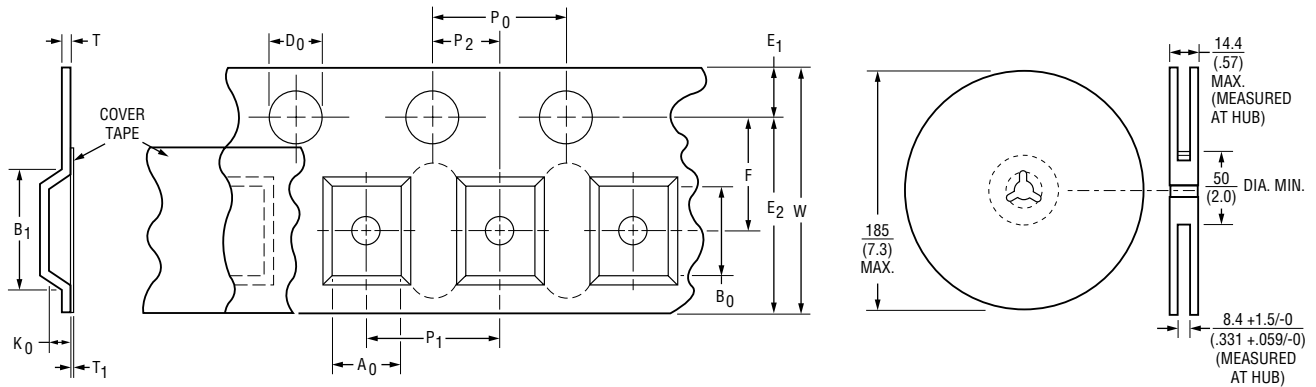
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MF-NSMF Series Tape and Reel Specifications

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Tape Dimensions per EIA-481	MF-NSMF012	MF-NSMF016 MF-NSMF020 MF-NSMF035 MF-NSMF050	MF-NSMF075	MF-NSMF110 MF-NSMF125 MF-NSMF150 MF-NSMF175 MF-NSMF200	MF-NSMF020X MF-NSMF025X MF-NSMF035X
W	8.00 ± 0.30 (.315 ± .012)				
P ₀	4.00 ± 0.10 (.157 ± .004)				
10 P ₀	40.0 ± 0.20 (1.575 ± .008)				
P ₁	4.00 ± 0.10 (.157 ± .004)				
P ₂	2.00 ± 0.05 (.079 ± .002)				
A ₀	1.90 ± 0.10 (.075 ± .004)	1.90 ± 0.10 (.075 ± .004)	1.90 ± 0.10 (.075 ± .004)	1.90 ± 0.10 (.075 ± .004)	1.95 ± 0.10 (.077 ± .004)
B ₀	3.50 ± 0.10 (.138 ± .004)	3.45 ± 0.10 (.136 ± .004)	3.50 ± 0.10 (.138 ± .004)	3.45 ± 0.10 (.136 ± .004)	3.55 ± 0.10 (.140 ± .004)
B ₁ max	4.35 (.171)				
D ₀	1.50 +0.10/-0 (.059 +.004/-0)				
F	3.50 ± 0.05 (.138 ± .002)				
E ₁	1.75 ± 0.10 (.069 ± .004)				
E ₂ typ	6.25 (.246)				
T max	0.60 (.024)				
T ₁ max	0.10 (.004)				
K ₀	1.35 ± 0.10 (.053 ± .004)	1.04 ± 0.10 (.041 ± .004)	0.85 ± 0.10 (.033 ± .004)	0.85 ± 0.10 (.033 ± .004)	0.80 ± 0.15 (.031 ± .006)
Leader min.	390 (15.4)				
Trailer min.	160 (6.3)				

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

MF-NSMF SERIES, REV. Z, 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

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