

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: MF-RX012/250-T-0

Manufacturer: Bourns Inc.

Package: Radial, Disc

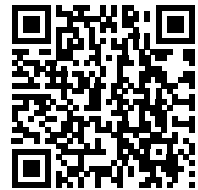
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/bourns-inc/mf-rx012-250-t-0.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

Email: info@antrexco.com

WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



Features

- Radial leaded devices
- Fast trip resettable PTCs
- Binned and sorted narrow resistance ranges available
- RoHS compliant*
- Agency recognition:  

Applications

- Customer Premise Equipment (CPE)
- Central Office / Telecom Centers (CO)
- Access equipment

MF-RX/250 Series - Telecom PTC Resettable Fuses

Electrical Characteristics

Model	Maximum Operating Voltage (DC)	Maximum Interrupt Ratings		I _{hold}	I _{trip}	Initial Resistance		One Hour (R ₁) Post-Trip Resistance	Maximum Time to Trip		Tripped Power Dissipation	Agency Recognition	
		Vrms	Amps			at 23 °C			at 23 °C Ohms			at 23 °C	
		Volts	Max.	Max.	Amps		Min.	Max.	Max.	Amps	Sec.	Max.	E174545
MF-RX012/250	60	250	3	0.12	0.24	4.0	8.0	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-A	60	250	3	0.12	0.24	7.0	9.0	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-C	60	250	3	0.12	0.24	5.5	7.5	14.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-F	60	250	3	0.12	0.24	6.0	10.5	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-G	60	250	3	0.12	0.24	5.5	6.5	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-H	60	250	3	0.12	0.24	9.0	10.5	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-T	60	250	3	0.12	0.24	7.0	12.0	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-1	60	250	3	0.12	0.24	6.0	9.0	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250-2	60	250	3	0.12	0.24	8.0	10.5	16.0	1.0	2.5	1.0	✓	✓
MF-RX012/250U	60	250	3	0.12	0.24	6.0	10.0	16.0	1.0	2.5	1.0	✓	✓
MF-RX014/250	60	250	3	0.145	0.28	3.0	6.0	14.0	1.0	5.0	1.0	✓	✓
MF-RX014/250-A	60	250	3	0.145	0.28	3.0	5.5	12.0	1.0	5.0	1.0	✓	✓
MF-RX014/250-B	60	250	3	0.145	0.28	4.5	6.0	14.0	1.0	5.0	1.0	✓	✓
MF-RX014/250-C	60	250	3	0.145	0.28	3.0	4.0	14.0	1.0	5.0	1.0	✓	✓
MF-RX014/250-T	60	250	3	0.145	0.28	5.4	7.5	14.0	1.0	5.0	1.0	✓	✓
MF-RX014/250U	60	250	3	0.145	0.28	3.5	6.5	12.0	1.0	4.0	1.0	✓	✓
MF-RX018/250	60	250	10	0.18	0.50	0.8	2.0	4.0	1.0	20	1.0	✓	✓
MF-RX018/250U	60	250	10	0.18	0.50	0.8	2.0	4.0	1.0	20	1.0	✓	✓

*"U" suffix indicates product without insulation coating.

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	±15 % typical resistance change
Humidity Aging	+85 °C, 85 % R.H. 1000 hours	±15 % typical resistance change
Thermal Shock	-55 °C to +125 °C, 10 times	±15 % typical resistance change
Solvent Resistance	MIL-STD-202, Method 215	No change (marking still legible)
Vibration	MIL-STD-883C, Method 2007.1 Condition A	±15 % typical resistance change
Moisture Sensitivity Level (MSL)	See Note	
ESD Classification	Class 6 (per AEC-Q200-2, HBM)	

Additional Information

Click these links for more information:



[PRODUCT SELECTOR](#) [TECHNICAL LIBRARY](#) [INVENTORY](#) [SAMPLES](#) [CONTACT](#)

BOURNS®

Asia-Pacific:

Tel: +886-2 2562-4117

Email: asiacus@bourns.com

Europe:

Tel: +36 88 885 877

Email: eurocus@bourns.com

Mexico:

Tel: +52 614 478 0400

Email: mexicus@bourns.com

The Americas:

Tel: +1-951 781-5500

Email: americus@bourns.com

www.bourns.com



CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant. See www.P65Warnings.ca.gov

* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

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.

Additional Features

- Ability to withstand AC power cross conditions
- Assists equipment with meeting ITU-T K.20/K.21/K.45
- Assists equipment with meeting Telcordia GR-1089-C Intrabuilding

MF-RX/250 Series - Telecom PTC Resettable Fuses

BOURNS®

Test Procedures and Requirements

Item	Test Condition	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	$T \leq \text{max. time to trip (seconds)}$
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} , 48 hours	No arcing or burning
Solderability	245 °C $\pm$ 5 °C, 5 seconds	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
MF-RX012/250	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-A	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-C	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-F	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-G	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-H	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-T	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-1	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250-2	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX012/250U	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
MF-RX014/250	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
MF-RX014/250-A	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
MF-RX014/250-B	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
MF-RX014/250-C	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
MF-RX014/250-T	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
MF-RX014/250U	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
MF-RX018/250	0.269	0.240	0.211	0.180	0.153	0.138	0.123	0.109	0.087
MF-RX018/250U	0.269	0.240	0.211	0.180	0.153	0.138	0.123	0.109	0.087

I_{trip} is approximately two times I_{hold} .

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-RX/250 Series - Telecom PTC Resettable Fuses

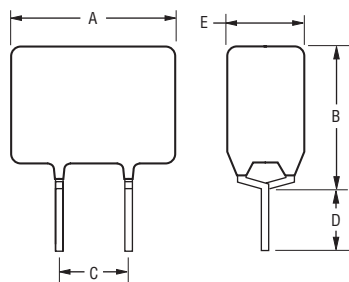
BOURNS®

Product Dimensions

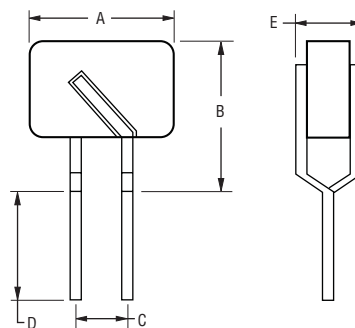
Model	A	B	C	D	E	Physical Characteristics		
	Max.	Max.	Nom.	Min.	Max.	Lead Dia.	Style	Material
MF-RX012/250	$\frac{6.5}{(0.256)}$	$\frac{11.0}{(0.433)}$	$\frac{5.1 \pm 0.7}{(0.201 \pm 0.028)}$	$\frac{4.7}{(0.185)}$	$\frac{4.6}{(0.181)}$	$\frac{0.65}{(0.026)}$	1	Sn/Cu
MF-RX012/250-A								
MF-RX012/250-C								
MF-RX012/250-F								
MF-RX012/250-G								
MF-RX012/250-H								
MF-RX012/250-T								
MF-RX012/250-1								
MF-RX012/250-2								
MF-RX012/250U	$\frac{6.0}{(0.236)}$	$\frac{10.0}{(0.394)}$	$\frac{5.1 \pm 0.7}{(0.201 \pm 0.028)}$	$\frac{4.7}{(0.185)}$	$\frac{3.8}{(0.150)}$	$\frac{0.65}{(0.026)}$	2	Sn/Cu
MF-RX014/250	$\frac{6.5}{(0.256)}$	$\frac{11.0}{(0.433)}$	$\frac{5.1 \pm 0.7}{(0.201 \pm 0.028)}$	$\frac{4.7}{(0.185)}$	$\frac{4.6}{(0.181)}$	$\frac{0.65}{(0.026)}$	1	Sn/Cu
MF-RX014/250-A								
MF-RX014/250-B								
MF-RX014/250-C								
MF-RX014/250-T								
MF-RX014/250U	$\frac{6.0}{(0.236)}$	$\frac{10.0}{(0.394)}$	$\frac{5.1 \pm 0.7}{(0.201 \pm 0.028)}$	$\frac{4.7}{(0.185)}$	$\frac{3.8}{(0.150)}$	$\frac{0.65}{(0.026)}$	2	Sn/Cu
MF-RX018/250	$\frac{11.0}{(0.433)}$	$\frac{13.6}{(0.535)}$	$\frac{5.1 \pm 0.7}{(0.201 \pm 0.028)}$	$\frac{4.7}{(0.185)}$	$\frac{4.6}{(0.181)}$	$\frac{0.65}{(0.026)}$	1	Sn/Cu
MF-RX018/250U	$\frac{10.4}{(0.409)}$	$\frac{12.6}{(0.496)}$	$\frac{5.1 \pm 0.7}{(0.201 \pm 0.028)}$	$\frac{4.7}{(0.185)}$	$\frac{3.8}{(0.150)}$	$\frac{0.65}{(0.026)}$	2	Sn/Cu

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

Style 1

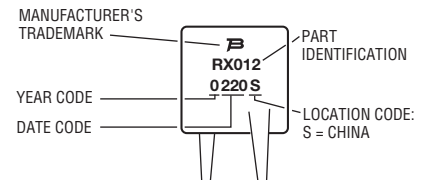


Style 2



Typical Part Marking

Represents total content. Layout may vary.



Packaging Quantity

Packaging Options	Models	Unit Quantity (Pcs.)	Unit	Notes
Bulk	All models	500	Bag	
Tape & Reel	All models	1500	Reel	Available Binned

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-RX/250 Series - Telecom PTC Resettable Fuses

BOURNS®

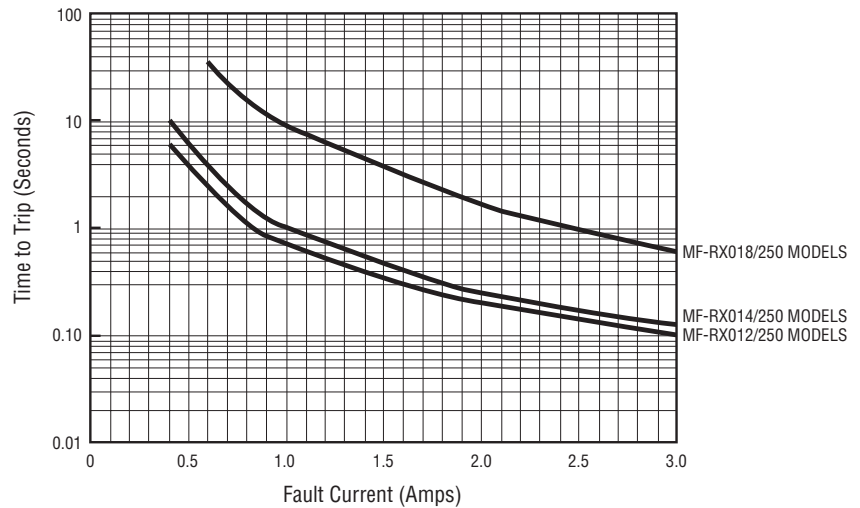
How to Order

MF - RX 012/250 U - A 05 - 2

Multifuse®
Product Designator
Series
RX = Radial Leaded Component
Hold Current, I_{hold}
012-018 (0.12-0.18 Amps)
Max. Interrupt Voltage, V
250 (250 Volts)
Insulation Options
Blank = Coated
U = Uncoated
Resistance Sorted
Narrow resistance ranges - see Resistance Options chart
Resistance Bins
05 = 0.5 ohm binned parts (coated only)
Packaging Options
- 0 = Bulk Packaging
- 2 = Tape and Reel*

*Packaged per EIA-468

Typical Time to Trip at 23 °C



Resistance Options

Model	Initial Resistance Values		R _{1max}	Bin
	Ohms @ 23 °C		Ohms @ 23 °C	
	Min.	Max.	Max.	
MF-RX012/250	4.0	8.0	16.0	N/A
MF-RX012/250-A05	7.0	9.0	16.0	0.5
MF-RX012/250-C05	5.5	7.5	14.0	0.5
MF-RX012/250-F05	6.0	10.5	16.0	0.5
MF-RX012/250-G05	5.5	6.5	16.0	N/A
MF-RX012/250-H05	9.0	10.5	16.0	N/A
MF-RX012/250-T05	7.0	12.0	16.0	0.5
MF-RX012/250-105	6.0	9.0	16.0	0.5
MF-RX012/250-205	8.0	10.5	16.0	0.5
MF-RX012/250U	6.0	10.0	16.0	N/A
MF-RX014/250	3.0	6.0	14.0	N/A
MF-RX014/250-A05	3.0	5.5	12.0	0.5
MF-RX014/250-B05	4.5	6.0	14.0	0.5
MF-RX014/250-C05	3.0	4.0	14.0	N/A
MF-RX014/250-T05	5.4	7.5	14.0	0.5
MF-RX014/250U	3.5	6.5	12.0	N/A
MF-RX018/250	0.8	2.0	4.0	N/A
MF-RX018/250U	0.8	2.0	4.0	N/A

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-RX/250 Series Tape and Reel Specifications

BOURNS®

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

Dimension Description	IEC Mark	EIA Mark	Dimensions	
			Dimensions	Tolerance
Carrier tape width	W	W	$\frac{18}{(0.709)}$	$\frac{-0.5/+1.0}{(-0.02/+0.039)}$
Hold down tape width	W_0	W_0	$\frac{5}{(0.197)}$	min.
Hold down tape	No protrusion beyond the carrier tape			
Adhesive tape position	W_2	W_2	$\frac{3}{(0.118)}$	max.
Sprocket hole position	W_1	W_1	$\frac{9}{(0.354)}$	$\frac{-0.5/+0.75}{(-0.02/+0.03)}$
Sprocket hole diameter	D_0	D_0	$\frac{4}{(0.157)}$	$\frac{\pm 0.2}{(\pm 0.0078)}$
Height to seating plane (straight lead)	H	H	$\frac{18 \sim 20}{(0.709 \sim 0.787)}$	
Height to seating plane (formed lead)	H_0	H_0	$\frac{16}{(0.63)}$	$\frac{\pm 0.5}{(\pm 0.02)}$
Overall height above abscissa	H_1	H_1	$\frac{38.5}{(1.516)}$	max.
Cutout Length		L	$\frac{11}{(0.433)}$	max.
Sprocket hole pitch	P_0	P_0	$\frac{12.7}{(0.5)}$	$\frac{\pm 0.3}{(\pm 0.012)}$
Device pitch	P	P	$\frac{12.7}{(0.5)}$	$\frac{\pm 0.3}{(\pm 0.012)}$
Pitch tolerance			20 consecutive	$\frac{\pm 1}{(\pm 0.039)}$
Composite tape thickness	t	t	$\frac{0.9}{(0.035)}$	max.
Overall tape and lead thickness	t_1	t_1	$\frac{2.0}{(0.079)}$	max.
Splice sprocket hole alignment			0	$\frac{\pm 0.3}{(\pm 0.012)}$
Front-to-back deviation	Δ_h	Δ_h	0	$\frac{\pm 1.0}{(\pm 0.039)}$
Side-to-side deviation	Δ_p	Δ_p	0	$\frac{\pm 1.3}{(\pm 0.051)}$
Ordinate to adjacent component lead	P_1	P_1	$\frac{3.81}{(0.150)}$	$\frac{\pm 0.7}{(\pm 0.028)}$
Lead spacing	F	F	$\frac{5.08}{(0.2)}$	$\frac{+0.6/-0.2}{(+0.024/-0.008)}$
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.

— Continued on next page —

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

Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

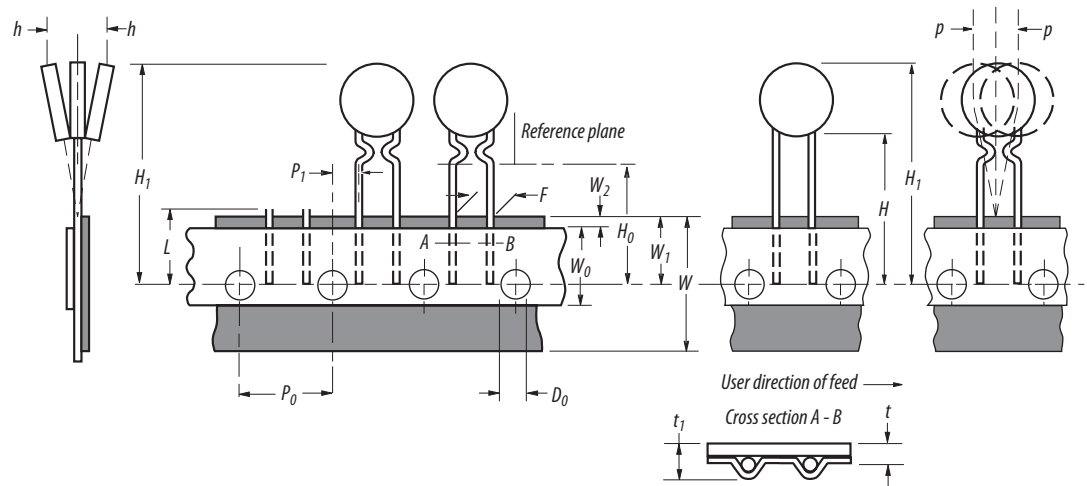
The products described herein and this document are subject to specific legal disclaimers as set forth on the last page of this document, and at www.bourns.com/docs/legal/disclaimer.pdf.

MF-RX/250 Series Tape and Reel Specifications

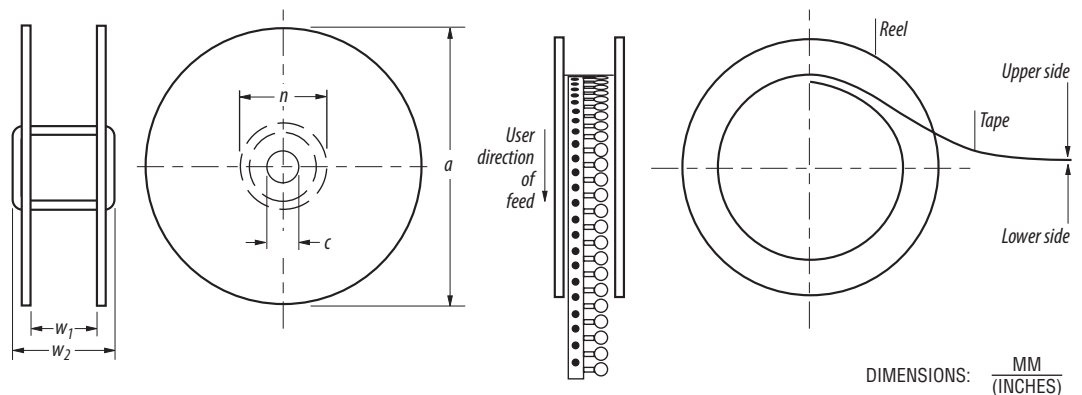
BOURNS®

Dimension Description	IEC Mark	EIA Mark	Dimensions			
			Dimensions	Tolerance		
Space between flanges (at hub, excluding device)			$\frac{4.75}{(0.187)}$	$\frac{\pm 3.25}{(\pm 0.128)}$		
Arbor hole diameter	<i>C</i>	<i>c</i>	$\frac{26.0}{(1.024)}$	$\frac{\pm 12.0}{(\pm 0.472)}$		
Core diameter	<i>N</i>	<i>n</i>	$\frac{80}{(3.15)}$	min.		
Box dimensions			$\frac{62}{(2.44)}$	$\frac{372}{(14.6)}$	$\frac{372}{(14.6)}$	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**



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

MF-RX/250, REV. P 04/26

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.

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

This legal disclaimer applies to purchasers and users of Bourns® products manufactured by or on behalf of Bourns, Inc. and its affiliates (collectively, "Bourns").

Unless otherwise expressly indicated in writing, Bourns® products and data sheets relating thereto are subject to change without notice. Users should check for and obtain the latest relevant information and verify that such information is current and complete before placing orders for Bourns® products.

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.

Unless Bourns has explicitly designated an individual Bourns® product as meeting the requirements of a particular industry standard (e.g., IATF 16949) or a particular qualification (e.g., UL listed or recognized), Bourns is not responsible for any failure of an individual Bourns® product to meet the requirements of such industry standard or particular qualification. Users of Bourns® products are responsible for ensuring compliance with safety-related requirements and standards applicable to their devices or applications.

Bourns® products are not recommended, authorized or intended for use in nuclear, lifesaving, life-critical or life-sustaining applications, nor in any other applications where failure or malfunction may result in personal injury, death, or severe property or environmental damage. Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any Bourns® products in such unauthorized applications might not be safe and thus is at the user's sole risk. Life-critical applications include devices identified by the U.S. Food and Drug Administration as Class III devices and generally equivalent classifications outside of the United States.

Bourns expressly identifies those Bourns® standard products that are suitable for use in automotive applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns® standard products in an automotive application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk. If Bourns expressly identifies a sub-category of automotive application in the data sheet for its standard products (such as infotainment or lighting), such identification means that Bourns has reviewed its standard product and has determined that if such Bourns® standard product is considered for potential use in automotive applications, it should only be used in such sub-category of automotive applications. Any reference to Bourns® standard product in the data sheet as compliant with the AEC-Q standard or "automotive grade" does not by itself mean that Bourns has approved such product for use in an automotive application.

Bourns® standard products are not tested to comply with United States Federal Aviation Administration standards generally or any other generally equivalent governmental organization standard applicable to products designed or manufactured for use in aircraft or space applications. Bourns expressly identifies Bourns® standard products that are suitable for use in aircraft or space applications on such products' data sheets in the section entitled "Applications." Unless expressly and specifically approved in writing by two authorized Bourns representatives on a case-by-case basis, use of any other Bourns® standard product in an aircraft or space application might not be safe and thus is not recommended, authorized or intended and is at the user's sole risk.

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.

Users shall not sell, transfer, export or re-export any Bourns® products or technology for use in activities which involve the design, development, production, use or stockpiling of nuclear, chemical or biological weapons or missiles, nor shall they use Bourns® products or technology in any facility which engages in activities relating to such devices. The foregoing restrictions apply to all uses and applications that violate national or international prohibitions, including embargos or international regulations. Further, Bourns® products and Bourns technology and technical data may not under any circumstance be exported or re-exported to countries subject to international sanctions or embargoes. Bourns® products may not, without prior authorization from Bourns and/or the U.S. Government, be resold, transferred, or re-exported to any party not eligible to receive U.S. commodities, software, and technical data.

To the maximum extent permitted by applicable law, Bourns disclaims (i) any and all liability for special, punitive, consequential, incidental or indirect damages or lost revenues or lost profits, and (ii) any and all implied warranties, including implied warranties of fitness for particular purpose, non-infringement and merchantability.

For your convenience, copies of this Legal Disclaimer Notice with German, Spanish, Japanese, Traditional Chinese and Simplified Chinese bilingual versions are available at:

Web Page: <http://www.bourns.com/legal/disclaimers-terms-and-policies>

PDF: <http://www.bourns.com/docs/Legal/disclaimer.pdf>