

Features

- Compliant with AEC-Q200 Rev-C- 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

	V max. Volts	l max. Amps	I _{hold}	l _{trip}	Resis	stance	Max. Time To Trip		Tripped Power Dissipation
Model			Amperes at 23 °C		Ohms at 23 °C		Amperes at 23 °C	Seconds at 23 °C	Watts at 23 °C
			Hold	Trip	R _{Min} .	R _{1Max.} (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	40 °C to +125 °C	
Storage Temperature	40 °C to +85 °C	
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	MIL-STD-202, Method 107	±10 % typical resistance change
	+125 °C to -40 °C, 10 cycles	
Vibration	MIL-STD-883C, Method 2007.1,	No change
	Condition A	•
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 R1max
Time to Trip	At specified current, Vmax, 23 °C	T ≤ max. time to trip (seconds)
Hold Current	30 min. at Ihold	No trip
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

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.

^{*} 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.

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

BOURNS

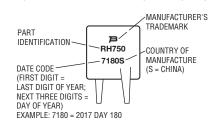
Thermal Derating Chart - Ihold (Amps)

Model				Aml	bient Operat	ing Tempera	emperature					
iviodei	-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 -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- 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.



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.

*Packaged per EIA 486-B

Product Dimensions

Model	A B		С		D	E	F	Physical Characteristics		
wodei	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	3	Sn/CuFe	
	(0.291)	(0.500)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)	3	Sil/Cure	
MF-RHT070	6.86	_10.8_	5.1	0.7	_7.6_	3.0	0.51	1	Sn/CuFe	
1411 11111070	(0.27)	(0.425)	(0.201)	(0.028)	(0.30)	(0.12)	(0.020)		Gri/Gur G	
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	$\frac{9.4}{(0.37)}$	14.0 (0.55)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	$\frac{7.6}{(0.30)}$	3.0 (0.12)	0.51 (0.020)	3	Sn/CuFe	
	9.4	14.0	5.1	0.020)	7.6	3.0	0.51			
MF-RHT200/32	(0.37)	(0.55)	(0.201)	(0.028)	$\frac{7.0}{(0.30)}$	(0.12)	(0.020)	3	Sn/CuFe	
ME DUTOS	8.80	13.8	5.1	0.7	7.6	3.0	0.81	_	0. 10	
MF-RHT300	(0.35)	(0.55)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)	2	Sn/Cu	
MF-RHT400	10.0	15.0	5.1	0.7	_7.6_	3.0	0.81	2	Sn/Cu	
IVII -NITT400	(0.394)	(0.591)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)	2	Sil/Ou	
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)	_	011/04	
MF-RHT500	11.2	18.9	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.441)	(0.744) 18.9	(0.201) 5.1	(0.028)	(0.30) 7.6	(0.12) 3.0	(0.032) 0.81			
MF-RHT550	$\frac{11.2}{(0.441)}$	$\frac{16.9}{(0.744)}$	(0.201)	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	(0.12)	(0.032)	2	Sn/Cu	
	11.2	21.0	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
MF-RHT600	(0.441)	(0.827)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)			
MF-RHT650	12.7	22.2	5.1	0.7	7.6	3.0	0.81	0	Sn/Cu	
IVIF-RH I 000	(0.50)	(0.88)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)	2	Sn/Cu	
MF-RHT700	_14.0_	_21.9_	5.1	0.7	7.6_	3.0	_0.81_	2	Sn/Cu	
1011 -1 11 11 7 00	(0.55)	(0.862)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)		31700	
MF-RHT750	14.0	23.5	5.1	0.7	7.6	3.0	0.81	2	Sn/Cu	
	(0.55)	(0.93)	(0.201)	(0.028)	(0.30)	(0.12)	(0.032)	_		
MF-RHT800	16.5 (0.65)	<u>22.5</u> (0.88)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.30)}$	3.0 (0.12)	$\frac{0.81}{(0.032)}$	2	Sn/Cu	
	16.5	25.7	5.1	0.026)	7.6	3.0	0.81			
MF-RHT900	(0.65)	(1.012)	(0.201)	$\frac{0.7}{(0.028)}$	$\frac{7.0}{(0.30)}$	(0.12)	(0.032)	2	Sn/Cu	
MF-RHT1000	17.5	26.7	10.2	0.7	7.6	3.0	0.81			
	(0.689)	(0.51)	(0.402)	(0.028)	(0.30)	(0.12)	(0.032)	2	Sn/Cu	
ME DUTAGO	21.0	26.1	10.2	0.7	7.6	3.0	0.81	0	Cn/Cu	
MF-RHT1100	(0.65)	(0.88)	(0.402)	(0.028)	(0.30)	(0.12)	(0.032)	2	Sn/Cu	
MF-RHT1300	23.5	28.7	10.2	0.7	7.6	3.6	1.0	2	Sn/Cu	
WIF-RH I 1300	(0.925)	(1.17)	(0.402)	(0.028)	(0.30)	(0.14)	(0.040)		SII/Cu	

Packaging:

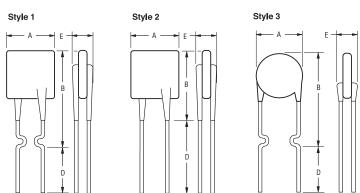
BULK: MF-RHT050~MF-RHT800 = 500 pcs. per bag; MF-RHT900~MF-RHT1300 = 250 pcs. per bag TAPE & REEL: MF-RHT050~MF-RHT400 = 3000 pcs. per reel; MF-RHT450~MF-RHT700 = 1500 pcs. per reel;

MF-RHT750~MF-RHT1300 = 1000 pcs. per reel

0.51 (24AWG) 0.81 (20AWG) 1.0 (18AWG)

MM DIMENSIONS: (INCHES)

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

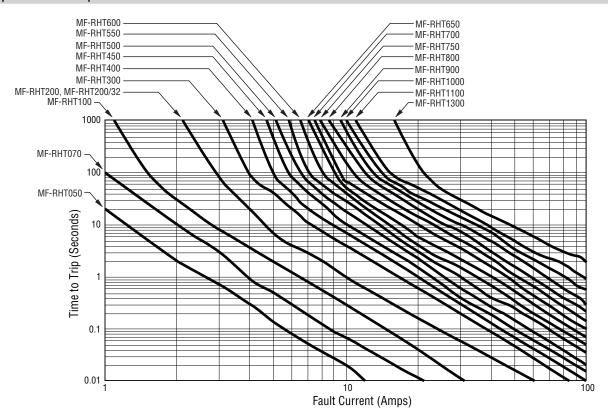


Also available with kinked and straight leads in place of standard leads (see How to Order).

Specifications are subject to change without notice. Users should verify actual device performance in their specific applications.

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.

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

Devices taped using EIA468-B/IEC60286-2 standards. See table below and Figures 1 and 2 for details.

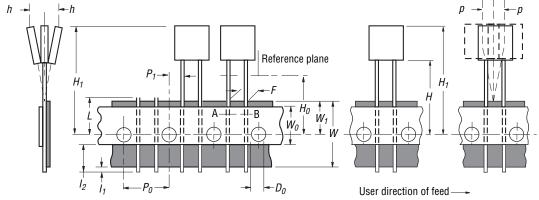
	IEC	EIA	Dimensions		
Dimension Description	Mark	Mark	Dimensions	Tolerance	
Carrier tape width	W	W	18 (.709)	-0.5/+1.0 (-0.02/+.039)	
Hold down tape width	W_0	W_4	11 (.433)	min.	
Hold down tape			No protrusion		
Top distance between tape edges	W ₂	W ₆	3 (.118)	max.	
Sprocket hole position	W ₁	W ₅	9 (.354)	-0.5/+0.75 (-0.02/+0.03)	
Sprocket hole diameter	D ₀	D ₀	<u>4</u> (.157)	±0.2 (±.0078)	
Abscissa to plane (straight lead)	Н	Н	18.5 (.728)	±3.0 (±.118)	
Abscissa to plane (kinked lead)	H ₀	H ₀	16 (.63)	±0.5 (±.02)	
Abscissa to top: MF-RHT050 ~ MF-RHT450	H ₁	H ₁	32.2 (1.268)	max.	
Abscissa to top: MF-RHT500 ~ MF-RHT1300	H ₁	H ₁	45.0 (1.837)	max.	
Overall width w/lead protrusion: MF-RHT050 ~ MF-RHT450		C ₁	42.5 (1.673)	max.	
Overall width w/lead protrusion: MF-RHT500 ~ MF-RHT1300		C ₁	<u>55.0</u> (2.165)	max.	
Overall width w/o lead protrusion: MF-RHT050 ~ MF-RHT450		C ₂	42.5 (1.673)	max.	
Overall width w/o lead protrusion: MF-RHT500 ~ MF-RHT1300		C ₂	54.0 (2.126)	max.	
Lead protrusion	11	L ₁	1.0 (.039)	max.	
Protrusion of cutout	L	L	11 (.433)	max.	
Protrusion beyond hold-down tape	12	12	Not specified		
Sprocket hole pitch	P ₀	P ₀	12.7 (0.5)	±0.3 (±.012)	
Pitch tolerance			20 consecutive	±1 (±.039)	
Device pitch			25.4 (1.0)	±0.6 (±.024)	
Tape thickness	t	t	0.9 (.035)	max.	
Tape thickness with splice: MF-RHT050 ~ MF-RHT200		t ₁	1.5 (.059)	max.	
Tape thickness with splice: MF-RHT300 ~ MF-RHT1300		t ₁	2.3 (.091)	max.	
Splice sprocket hole alignment			4.0 (.157)	±0.2 (±.008)	
Body lateral deviation	Δ_h	Δh	0	±1 (±.039)	
Body tape plane deviation	$\Delta_{\mathcal{p}}$	$\Delta_{\mathcal{p}}$	0	±0.3 (±.012)	
Ordinate to adjacent component lead	P ₁	P ₁	3.81 (.015)	±0.07 (±.028)	

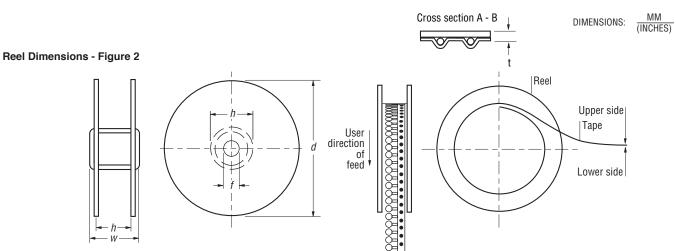
MM (INCHES) DIMENSIONS:

MF-RHT Series Tape and Reel Specifications

	IEC	EIA	Dimensions		
Dimension Description	Mark	Mark	Dimensions	Tolerance	
Lead spacing: MF-RHT050 ~ MF-RHT900	F	F	<u>5.08</u> (0.2)	-0.2/+0.8 (-0.006/+0.031)	
Lead spacing: MF-RHT1000 ~ MF-RHT1300	F	F	10.2 (0.402)	-0.2/+0.8 (-0.006/+0.031)	
Reel width: MF-RHT050 ~ MF-RHT450	w	W ₂	<u>56</u> (2.20)	max.	
Reel width: MF-RHT500 ~ MF-RHT1300	w	W ₂	63.5 (2.50)	max.	
Reel diameter	d	а	370.0 (14.57)	max.	
Space between flanges less device	W ₁	h	<u>4.75</u> (.187)	±3.25 (±.128)	
Arbor hole diameter	f	С	26.0 (1.02)	±12.0 (±.472)	
Core diameter	h	п	80.0 (3.15)	max.	
Вох			62 <u>355</u> 34 (2.44) (14.0) (13.		
Consecutive missing places			3	max.	
Empty places per reel			Not specified		

Taped Component Dimensions - Figure 1





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.

Bourns® Multifuse® PPTC Resettable Fuses

BOURNS

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

Legal Disclaimer Notice



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., ISO/TS 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