

Features

- 72 V rated
- Cured, flame retardant epoxy polymer insulating material meets UL 94 V-0 requirements
- RoHS compliant* and halogen free**
- Agency recognition: c 🔁 us 📤

Applications

Almost anywhere there is a low voltage power supply, up to 72 V and a load to be protected, including:

- Security and fire alarm systems
- Loudspeakers
- Power transformers

MF-RX/72 Series - PTC Resettable Fuses

Electrical Characteristics

	Vmax	Vmax Imax	V _{max} I _{max}		I _{trip}		tial tance	1 Hour (R ₁) Post-Trip Resistance		. Time Trip	Tripped Power Dissipation		ency gnition
Model	Пах	max	at 2	3 °C		3 °C ms	at 23 °C Ohms	at 2	23 °C	at 23 °C Watts	cUL	ΤÜV	
	Volts	Amps	Am	nps	Min.	Max.	Max.	Amps	Seconds	Тур.	<u>E174545</u>	<u>R50366745</u>	
MF-RX020/72	72	40	0.20	0.40	1.50	2.84	4.40	1.00	2.2	0.40	1	1	
MF-RX025/72	72	40	0.25	0.50	1.00	1.95	3.00	1.25	2.5	0.45	1	1	
MF-RX030/72	72	40	0.30	0.60	0.76	1.36	2.10	1.50	3.0	0.50	1	1	
MF-RX040/72	72	40	0.40	0.80	0.52	0.86	1.29	2.00	3.9	0.55	\checkmark	1	
MF-RX050/72	72	40	0.50	1.00	0.41	0.77	1.17	2.50	4.0	0.75	\checkmark	1	
MF-RX065/72	72	40	0.65	1.30	0.27	0.48	0.72	3.25	5.3	0.90	\checkmark	1	
MF-RX075/72	72	40	0.75	1.50	0.18	0.40	0.60	3.75	6.3	0.90	\checkmark	1	
MF-RX090/72	72	40	0.90	1.80	0.14	0.31	0.47	4.50	7.2	1.00	1	1	
MF-RX110/72	72	40	1.10	2.20	0.15	0.25	0.38	5.50	8.2	1.50	1	1	
MF-RX135/72	72	40	1.35	2.70	0.12	0.19	0.30	6.75	9.6	1.70	\checkmark	1	
MF-RX160/72	72	40	1.60	3.20	0.09	0.14	0.22	8.00	11.4	1.90	\checkmark	1	
MF-RX185/72	72	40	1.85	3.70	0.08	0.12	0.19	9.25	12.6	2.10	1	1	
MF-RX250/72	72	40	2.50	5.00	0.05	0.08	0.13	12.50	15.6	2.50	1	1	
MF-RX300/72	72	40	3.00	6.00	0.04	0.06	0.10	15.00	19.8	2.80	1	1	
MF-RX375/72	72	40	3.75	7.50	0.03	0.05	0.08	18.75	24.0	3.20	1	1	

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, 10 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)	

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	$R_{min} \le R \le R_{max}$
Time to Trip	5 times I _{hold} , V _{max} , 23 °C	$T \le max.$ 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 ±5 °C, 5 seconds	95 % min. coverage



WARNING Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

Bourns follows the prevailing definition of "halogen free" in the industry. 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.

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MF-RX/72 Series - PTC Resettable Fuses

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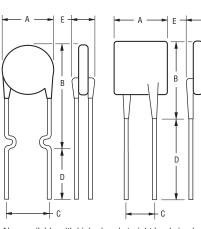
Product Dimensions

Model	Α	В	(0	D	E	Phy	sical Charac	teristics
woder	Max.	Max.	Nom.	Tol. ±	Min.	Max.	Style	Lead Dia.	Material
MF-RX020/72	<u>7.4</u> (0.291)	<u>12.7</u> (0.5)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	1	<u>0.51</u> (0.020)	Sn/CuFe
MF-RX025/72	<u>7.4</u> (0.291)	<u>12.7</u> (0.5)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	1	<u>0.51</u> (0.020)	Sn/CuFe
MF-RX030/72	<u>7.4</u> (0.291)	$\frac{13.4}{(0.528)}$	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	7.6 (0.30)	<u>3.1</u> (0.122)	1	0.51 (0.020)	Sn/CuFe
MF-RX040/72	<u>7.4</u> (0.291)	<u>13.7</u> (0.539)	<u>5.1</u> (0.201)	0.7 (0.028)	7.6 (0.30)	<u>3.1</u> (0.122)	1	0.51 (0.020)	Sn/CuFe
MF-RX050/72	<u>7.9</u> (0.311	<u>13.7</u> (0.539)	<u>5.1</u> (0.201)	0.7 (0.028)	7.6 (0.30)	<u>3.1</u> (0.122)	1	0.51 (0.020)	Sn/Cu
MF-RX065/72	<u>9.7</u> (0.382)	<u>15.2</u> (0.598)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	7.6 (0.30)	<u>3.1</u> (0.122)	1	0.51 (0.020)	Sn/Cu
MF-RX075/72	<u>10.4</u> (0.409)	<u>16.0</u> (0.630)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	1	<u>0.51</u> (0.020)	Sn/Cu
MF-RX090/72	<u>11.7</u> (0.461)	<u>16.70</u> (0.657)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	1	<u>0.51</u> (0.020)	Sn/Cu
MF-RX110/72	<u>10.84</u> (0.427)	$\frac{16.84}{(0.663)}$	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	7.6 (0.30)	<u>3.1</u> (0.122)	2	0.81 (0.032)	Sn/Cu
MF-RX135/72	<u>12.26</u> (0.483)	<u>18.26</u> (0.719)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	7.6 (0.30)	<u>3.1</u> (0.122)	2	0.81 (0.032)	Sn/Cu
MF-RX160/72	<u>13.94</u> (0.549)	<u>19.94</u> (0.785)	<u>5.1</u> (0.201)	<u>0.7</u> (0.028)	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	2	<u>0.81</u> (0.032)	Sn/Cu
MF-RX185/72	<u>15.18</u> (0.598)	<u>21.18</u> (0.834)	<u>5.1</u> (0.201)	0.7 (0.028)	7.6 (0.30)	<u>3.1</u> (0.122)	2	0.81 (0.032)	Sn/Cu
MF-RX250/72	<u>17.84</u> (0.702)	<u>23.84</u> (0.939)	<u>10.2</u> (0.402)	<u>0.7</u> (0.028)	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	2	0.81 (0.032)	Sn/Cu
MF-RX300/72	<u>20.67</u> (0.814)	<u>26.67</u> (1.050)	<u>10.2</u> (0.402)	<u>0.7</u> (0.028)	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	2	<u>0.81</u> (0.032)	Sn/Cu
MF-RX375/72	<u>23.51</u> (0.926)	<u>29.51</u> (1.162)	<u>10.2</u> (0.402)	<u>0.7</u> (0.028)	<u>7.6</u> (0.30)	<u>3.1</u> (0.122)	2	<u>0.81</u> (0.032)	Sn/Cu

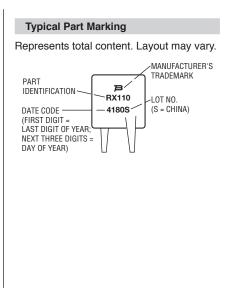
DIMENSIONS: $\frac{MM}{(INCHES)}$

Style 1

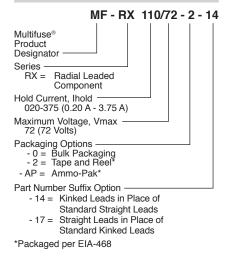
Style 2



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



How to Order



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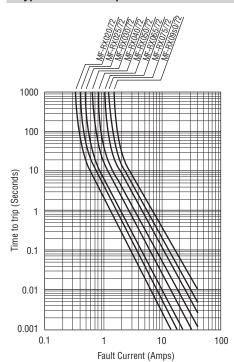
Users should verify actual device performance in their specific applications.

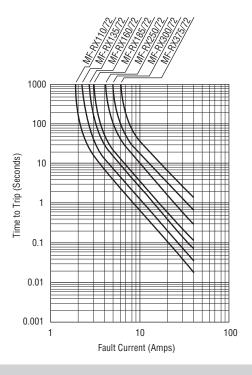
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MF-RX/72 Series - PTC Resettable Fuses

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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.

Thermal Derating Table - Ihold (Amps)

Marchall				Ambient C	Operating Ter	nperature			
Model	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
MF-RX020/72	0.31	0.27	0.24	0.20	0.16	0.14	0.13	0.11	0.08
MF-RX025/72	0.39	0.34	0.30	0.25	0.20	0.18	0.16	0.14	0.10
MF-RX030/72	0.47	0.41	0.36	0.30	0.24	0.22	0.19	0.16	0.12
MF-RX040/72	0.62	0.54	0.48	0.40	0.32	0.29	0.25	0.22	0.16
MF-RX050/72	0.78	0.68	0.60	0.50	0.41	0.36	0.32	0.27	0.20
MF-RX065/72	1.01	0.88	0.77	0.65	0.53	0.47	0.41	0.35	0.26
MF-RX075/72	1.16	1.02	0.89	0.75	0.61	0.54	0.47	0.41	0.30
MF-RX090/72	1.40	1.22	1.07	0.90	0.73	0.65	0.57	0.49	0.36
MF-RX110/72	1.71	1.50	1.31	1.10	0.89	0.79	0.69	0.59	0.44
MF-RX135/72	2.09	1.84	1.61	1.35	1.09	0.97	0.85	0.73	0.54
MF-RX160/72	2.48	2.18	1.90	1.60	1.30	1.15	1.01	0.86	0.64
MF-RX185/72	2.87	2.52	2.20	1.85	1.50	1.33	1.17	1.00	0.74
MF-RX250/72	3.88	3.40	2.98	2.50	2.03	1.80	1.58	1.35	1.00
MF-RX300/72	4.65	4.08	3.57	3.00	2.43	2.16	1.89	1.62	1.20
MF-RX375/72	5.81	5.10	4.46	3.75	3.04	2.70	2.36	2.03	1.50

Itrip is approximately two times Ihold.

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MF-RX/72 Series - PTC Resettable Fuses

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Packaging Quantity

Packaging options	Models	Unit Quantity (Pcs.)	Unit
Bulk	All models	500	Bag
	MF-RX020/72 ~ MF-RX090/72	3000	
Tape & Reel	MF-RX110/72 ~ MF-RX160/72	1500	Reel
	MF-RX185/72 ~ MF-RX375/72	1000	
	MF-RX020/72 ~ MF-RX090/72	2000	
Ammo-Pack	MF-RX110/72 ~ MF-RX160/72	1000	Pack
	MF-RX185/72 ~ MF-RX375/72	500	

MF-RX/72 Series Tape and Reel Specifications

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

Dimension Description	IEC Mark	EIA Mark	Dim Dimensions	ensions Tolerance
	W		18	-0.5/+1.0
Carrier tape width	VV	W	(.709)	(-0.02/+.039)
Hold down tape width	W ₀	W ₀	<u>5</u> (.197)	min.
Hold down tape			No protrusion	
Adhesive tape position	W2	W2	<u>3</u> (.118)	max.
Sprocket hole position	W ₁	W1	<u>9</u> (.354)	<u>-0.5/+0.75</u> (-0.02/+0.03)
Sprocket hole diameter	D ₀	D ₀	<u>4</u> (.157)	±0.2 (±.0078)
Height to seating plane (straight lead)	Н	Н	<u>18 ~ 20</u> (.709 ~ .787)	· · ·
Height to seating plane (formed lead)	H ₀	H ₀	<u> </u>	$\frac{\pm 0.5}{(\pm .02)}$
Overall height above abscissa	H ₁	H ₁	<u>38.5</u> (1.516)	max.
Cutout Length		L	<u>11</u> (.433)	max.
Sprocket hole pitch: MF-RX020/72 ~ MF-RX185/72	P ₀	P ₀	<u>12.7</u> (0.5)	±0.3 (±.012)
Sprocket hole pitch: MF-RX250/72 ~ MF-RX375/72	P ₀	P ₀	<u>25.4</u> (1.0)	<u>±0.3</u> (±.012)
Device pitch: MF-RX020/72 ~ MF-RX090/72	Р	Р	<u>12.7</u> (0.5)	$\frac{\pm 0.3}{(\pm .012)}$
Device pitch: MF-RX110/72 ~ MF-RX375/72	Р	Р	<u>25.4</u> (1.0)	$\frac{\pm 0.6}{(\pm .024)}$
Pitch tolerance			20 consecutive	$\frac{\pm 1}{(\pm .039)}$
Composite tape thickness	t	t	<u>0.9</u> (.035)	max.
Overall tape and lead thickness: MF-RX020/72 ~ MF-RX090/72	t ₁	t ₁	<u>2.0</u> (0.079)	max.
Overall tape and lead thickness: MF-RX110/72 ~ MF-RX375/72	t ₁	t ₁	<u>2.3</u> (0.091)	max.
Splice sprocket hole alignment			0	±0.3 (±.012)
Front-to-back deviation	Δ_h	Δ_h	0	±1.0 (±.039)
Side-to-side deviation	Δ_{p}	Δ_{p}	0	±1.3 (±.051)
Ordinate to adjacent component lead	P ₁	P ₁	<u>3.81</u> (0.150)	$\frac{\pm 0.7}{(\pm 0.028)}$
Lead spacing: MF-RX020/72 ~ MF-RX185/72	F	F	<u>5.08</u> (0.2)	+0.6/-0.2 (+0.024/-0.008)
Lead spacing: MF-RX250/72 ~ MF-RX375/72	F	F	<u>10.2</u> (0.4)	+0.6/-0.2 (+0.024/-0.008)

- Continued on next page -

MM DIMENSIONS: (INCHES)

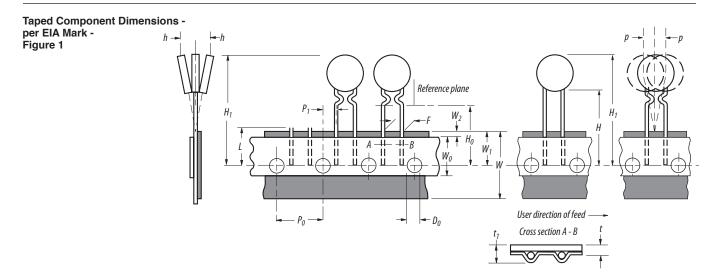
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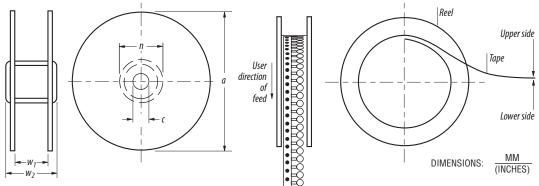
MF-RX/72 Series Tape and Reel Specifications

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	IEC	EIA	Dimensions		
Dimension Description	Mark	Mark	Dimensions	Tolerance	
Reel width including flanges and hub	<i>W</i> ₄	<i>w</i> 2	<u>62.0</u> (2.44)	max.	
Dimension between flanges (measured at hub)	W ₃	w ₁	allow proper reel	ing and unreeling	
Reel diameter	А	а	<u>370.0</u> (14.57)	max.	
Space between flanges (at hub, excluding device)			<u>4.75</u> (.187)	±3.25 (±.128)	
Arbor hole diameter	С	С	<u>26.0</u> (1.024)	±12.0 (±.472)	
Core diameter	Ν	п	<u>80</u> (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			Not specified		



Reel Dimensions - per EIA Mark - Figure 2



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Bourns® Multifuse® PPTC Resettable Fuses

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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: <u>https://www.bourns.com/docs/RoHS-MSL/msl_mf.pdf</u>

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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.

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