

Features

- Radial Leaded Devices
- Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirements
- RoHS compliant* and halogen free**
- Agency recognition: c 📆 us 🚔

Applications

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

- Computers & peripherals
- General electronics

MF-R Series - PTC Resettable Fuses

Electrical Characteristics

	V _{max}	max I _{max}	I _{hold}	I _{trip}		tial tance	1 Hour (R ₁) Post-Trip Resistance		Time Trip	Tripped Power Dissipation		ency gnition
Model			at 23 °C			ms 3 °C	Ohms at 23 °C	at 23 °C		Watts at 23 °C	cUL	ΤÜV
	Volts	Amps	Am	nps	Min.	Max.	Max.	Amps	Seconds	Тур.	E174545	R50366745
MF-R005	60	40	0.05	0.10	7.3	11.1	22.0	0.5	5.0	0.22	1	1
MF-R010	60	40	0.10	0.20	2.50	4.50	7.50	0.5	4.0	0.38	1	1
MF-R017	60	40	0.17	0.34	2.00	3.20	8.00	0.85	3.0	0.48	1	1
MF-R020	60	40	0.20	0.40	1.50	2.84	4.40	1.0	2.2	0.40	1	1
MF-R025	60	40	0.25	0.50	1.00	1.95	3.00	1.25	2.5	0.45	1	/
MF-R030	60	40	0.30	0.60	0.76	1.36	2.10	1.5	3.0	0.50	1	/
MF-R040	60	40	0.40	0.80	0.52	0.86	1.29	2.0	3.8	0.55	1	/
MF-R050	60	40	0.50	1.00	0.41	0.77	1.17	2.5	4.0	0.75	1	/
MF-R065	60	40	0.65	1.30	0.27	0.48	0.72	3.25	5.3	0.90	1	/
MF-R075	60	40	0.75	1.50	0.18	0.40	0.60	3.75	6.3	0.90	1	/
MF-R090	60	40	0.90	1.80	0.14	0.31	0.47	4.5	7.2	1.00	1	/
MF-R090-0-9	30	40	0.90	1.80	0.07	0.12	0.22	4.5	5.9	0.60	1	/
MF-R110	30	40	1.10	2.20	0.10	0.18	0.27	5.5	6.6	0.70	1	/
MF-R135	30	40	1.35	2.70	0.065	0.115	0.17	6.75	7.3	0.80	1	/
MF-R160	30	40	1.60	3.20	0.055	0.105	0.15	8.0	8.0	0.90	1	/
MF-R185	30	40	1.85	3.70	0.040	0.07	0.11	9.25	8.7	1.00	/	/
MF-R250	30	40	2.50	5.00	0.025	0.048	0.07	12.5	10.3	1.20	1	/
MF-R250-0-10	30	40	2.50	5.00	0.025	0.048	0.07	12.5	10.3	1.20	1	/
MF-R300	30	40	3.00	6.00	0.020	0.05	0.08	15.0	10.8	2.00	1	/
MF-R400	30	40	4.00	8.00	0.010	0.03	0.05	20.0	12.7	2.50	1	1
MF-R500	30	40	5.00	10.00	0.010	0.03	0.05	25.0	14.5	3.00	/	/
MF-R600	30	40	6.00	12.00	0.005	0.02	0.04	30.0	16.0	3.50	1	1
MF-R700	30	40	7.00	14.00	0.005	0.02	0.03	35.0	17.5	3.80	1	1
MF-R800	30	40	8.00	16.00	0.005	0.02	0.03	40.0	18.8	4.00	1	1
MF-R900	30	40	9.00	18.00	0.005	0.01	0.02	40.0	20.0	4.20	1	1
MF-R1100	16	100	11.00	22.00	0.003	0.01	0.014	40.0	20.0	4.50	/	/

Environmental Characteristics

Item	Condition	Criteria
Operating Temperature	-40 °C to +85 °C	
Recommended Storage	+40 °C max. / 70 % RH 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	At specified current, V _{max} , 23 °C, still air	T ≤ 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



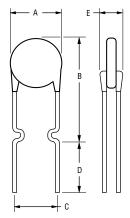
Product Dimensions (see next page for outline drawing)

Model	A	В	С		D	Е	Physical Characteristics		
Wodel	Max.	Max.	Nom.	Tol. ±	Min.	Max.	Style	Lead Dia.	Material
MF-R005	_8.0_	_ 8.3_	5.1	0.7	7.6	3.1	4	0.405	Sn/NiCu
1005	(0.315)	(0.327)	(0.201)	(0.028)	(0.299)	(0.122)	7	(0.016)	Sil/NiOu
MF-R010	7.4	<u>12.7</u> (0.5)	5.1	0.7	$\frac{7.6}{(0.299)}$	3.1	1	0.51 (0.020)	Sn/NiCu
	(0.291) 7.4	12.7	(0.201) 5.1	0.028)	7.6	3.1		0.020)	
MF-R017	$\frac{7.4}{(0.291)}$	(0.5)	(0.201)	(0.028)	(0.299)	(0.122)	1	(0.020)	Sn/CuFe
MF-R020	7.4	12.7	5.1	0.7	7.6	3.1	1	0.51	Sn/CuFe
1020	(0.291)	(0.5)	(0.201)	(0.028)	(0.299)	(0.122)	'	(0.020)	31/Our e
MF-R025	$\frac{7.4}{(0.291)}$	12.7	5.1	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.299)}$	3.1 (0.122)	1	$\frac{0.51}{(0.020)}$	Sn/CuFe
	7.4	(0.5)	(0.201) 5.1	0.028)	7.6	3.1		0.51	
MF-R030	$\frac{7.4}{(0.291)}$	(0.528)	(0.201)	(0.028)	(0.299)	(0.122)	1	(0.020)	Sn/CuFe
MF-R040	7.4	13.7	5.1	0.7	7.6	3.1	1	0.51	Sn/CuFe
WII -NO40	(0.291)	(0.539)	(0.201)	(0.028)	(0.299)	(0.122)	'	(0.020)	Sil/Cui e
MF-R050	7.9	13.7	5.1	0.7	7.6	3.1	1	0.51	Sn/Cu
	(0.311) 9.7	(0.539) 15.2	(0.201) 5.1	0.028)	(0.299) 7.6	(0.122) 3.1		(0.020) 0.51	
MF-R065	(0.382)	(0.598)	(0.201)	(0.028)	(0.299)	(0.122)	1	(0.020)	Sn/Cu
MF-R075	10.4	16.0	5.1	0.7	7.6	3.1	4	0.51	Sn/Cu
WIF-NU/5	(0.409)	(0.630)	(0.201)	(0.028)	(0.299)	(0.122)	1	(0.020)	SII/Cu
MF-R090	11.7	16.7	5.1	0.7	7.6	3.1	1	0.51	Sn/Cu
	(0.461)	(0.657) 12.2	(0.201) 5.1	0.028)	(0.299) 7.6	(0.122)		(0.020) 0.51	
MF-R090-0-9	7.4 (0.291)	(0.480)	(0.201)	(0.028)	(0.299)	(0.118)	3	(0.020)	Sn/CuFe
MF-R110	8.9	14.0	5.1	0.7	7.6	3.0	1	0.51	Sn/Cu
MIT-NIIU	(0.350)	(0.551)	(0.201)	(0.028)	(0.299)	(0.118)	'	(0.020)	SII/Cu
MF-R135	8.9	18.9	5.1	0.7	7.6	3.0	1	0.51	Sn/Cu
	(0.350)	16.8	(0.201)	0.028)	(0.299)	(0.118)		(0.020)	
MF-R160	(0.402)	(0.661)	5.1 (0.201)	(0.028)	$\frac{7.6}{(0.299)}$	3.0 (0.118)	1	$\frac{0.51}{(0.020)}$	Sn/Cu
MF-R185	12.0	18.4	5.1	0.7	7.6	3.0	4	0.51	Sn/Cu
IVIF-R 100	(0.472)	(0.724)	(0.201)	(0.028)	(0.299)	(0.118)	1	(0.020)	511/Cu
MF-R250	12.0	18.3	5.1	0.7	7.6	3.0	2	0.81	Sn/Cu
	(0.472)	(0.720)	(0.201)	(0.028)	(0.299)	(0.118)		(0.032)	
MF-R250-0-10	12.0 (0.472)	18.3 (0.720)	<u>5.1</u> (0.201)	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.299)}$	3.0 (0.118)	3	0.51 (0.020)	Sn/CuFe
ME DOOG	12.0	18.3	5.1	0.7	7.6	3.0		0.81	0/0
MF-R300	(0.472)	(0.720)	(0.201)	(0.028)	(0.299)	(0.118)	2	(0.032)	Sn/Cu
MF-R400	14.4	24.8	5.1	0.7	7.6	3.0	2	0.81	Sn/Cu
	(0.567)	(0.976)	(0.201)	(0.028)	(0.299)	(0.118)		(0.032)	
MF-R500	17.4 (0.685)	<u>24.9</u> (0.980)	10.2 (0.402)	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.299)}$	3.0 (0.118)	2	0.81 (0.032)	Sn/Cu
ME DOOG	19.3	31.9	10.2	0.7	7.6	3.0		0.81	0:- (0:-
MF-R600	(0.760)	(1.256)	(0.402)	(0.028)	(0.299)	(0.118)	2	(0.032)	Sn/Cu
MF-R700	_22.1_	_29.8_	10.2	0.7	7.6	3.0	2	0.81	Sn/Cu
	(0.870)	(1.173)	(0.402)	(0.028)	(0.299)	(0.118)	- -	(0.032)	
MF-R800	24.2 (0.953)	32.9 (1.295)	$\frac{10.2}{(0.402)}$	$\frac{0.7}{(0.028)}$	$\frac{7.6}{(0.299)}$	3.0 (0.118)	2	0.81 (0.032)	Sn/Cu
ME DOCC	24.2	32.9	10.2	0.7	7.6	3.0	+	0.81	010
MF-R900	(0.953)	(1.295)	(0.402)	(0.028)	(0.299)	(0.118)	2	(0.032)	Sn/Cu
MF-R1100	24.2	32.9	10.2	0.7	7.6	3.0	2	0.81	Sn/Cu
	(0.953)	0.953) (1.295)	(0.402)	(0.402) (0.028)	(0.299)	(0.118)		(0.032)	Ji//Ou

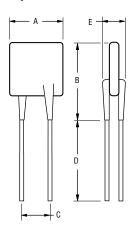
MMDIMENSIONS: (INCHES)

Product Dimensions (see previous page for dimensions)

Style 1

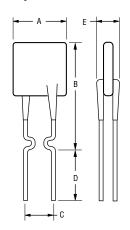


Style 2



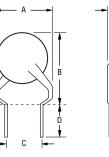
NOTE: Kinked lead option is available for board standoff. (See How to Order.)

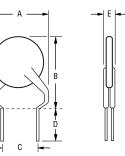
Style 3



NOTE: Also available with straight leads. (See How to Order.)

Style 4

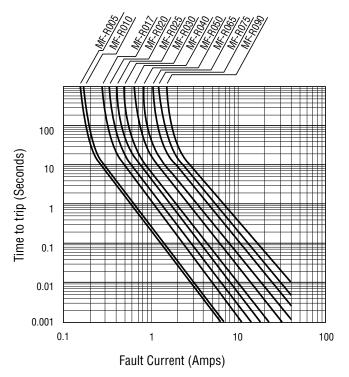




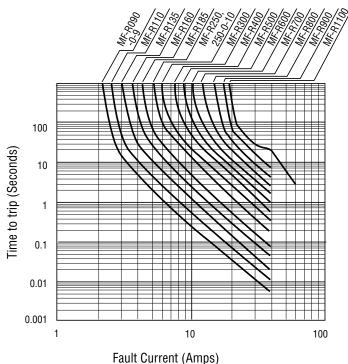
Thermal Derating Table - Ihold / Itrip (Amps)

Madal	Ambient Operating Temperature									
Model	-40 °C	-20 °C	0 ℃	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	
MF-R005	0.08 / 0.16	0.07 / 0.14	0.06 / 0.12	0.05 / 0.10	0.04 / 0.08	0.04 / 0.08	0.03 / 0.07	0.03 / 0.07	0.02 / 0.05	
MF-R010	0.16 / 0.32	0.14 / 0.28	0.12 / 0.24	0.10 / 0.20	0.08 / 0.16	0.07 / 0.14	0.06 / 0.12	0.05 / 0.10	0.04 / 0.08	
MF-R017	0.26 / 0.52	0.23 / 0.46	0.20 / 0.40	0.17 / 0.34	0.14 / 0.28	0.12 / 0.24	0.11 / 0.22	0.09 / 0.18	0.07 / 0.14	
MF-R020	0.31 / 0.62	0.27 / 0.54	0.24 / 0.48	0.20 / 0.40	0.16 / 0.32	0.14 / 0.28	0.13 / 0.26	0.11 / 0.22	0.08 / 0.16	
MF-R025	0.39 / 0.78	0.34 / 0.68	0.30 / 0.60	0.25 / 0.50	0.20 / 0.40	0.18 / 0.36	0.16 / 0.32	0.14 / 0.28	0.10 / 0.20	
MF-R030	0.47 / 0.94	0.41 / 0.82	0.36 / 0.72	0.30 / 0.60	0.24 / 0.48	0.22 / 0.44	0.19 / 0.38	0.16 / 0.32	0.12 / 0.24	
MF-R040	0.62 / 1.24	0.54 / 1.08	0.48 / 0.96	0.40 / 0.80	0.32 / 0.64	0.29 / 0.58	0.25 / 0.50	0.22 / 0.44	0.16 / 0.32	
MF-R050	0.78 / 1.56	0.68 / 1.36	0.60 / 1.20	0.50 / 1.00	0.41 / 0.82	0.36 / 0.72	0.32 / 0.64	0.27 / 0.54	0.20 / 0.40	
MF-R065	1.01 / 2.02	0.88 / 1.76	0.77 / 1.54	0.65 / 1.30	0.53 / 1.06	0.47 / 0.94	0.41 / 0.82	0.35 / 0.70	0.26 / 0.52	
MF-R075	1.16 / 2.32	1.02 / 2.04	0.89 / 1.78	0.75 / 1.50	0.61 / 1.22	0.54 / 1.08	0.47 / 0.94	0.41 / 0.82	0.30 / 0.60	
MF-R090	1.40 / 2.80	1.22 / 2.44	1.07 / 2.14	0.90 / 1.80	0.73 / 1.46	0.65 / 1.30	0.57 / 1.14	0.49 / 0.98	0.36 / 0.72	
MF-R090-0-9	1.40 / 2.80	1.22 / 2.44	1.07 / 2.14	0.90 / 1.80	0.73 / 1.46	0.65 / 1.30	0.57 / 1.14	0.49 / 0.98	0.36 / 0.72	
MF-R110	1.60 / 3.20	1.43 / 2.86	1.27 / 2.54	1.10 / 2.20	0.91 / 1.82	0.85 / 1.70	0.75 / 1.50	0.67 / 1.34	0.57 / 1.14	
MF-R135	1.96 / 3.92	1.76 / 3.52	1.55 / 3.10	1.35 / 2.70	1.12 / 2.24	1.04 / 2.08	0.92 / 1.84	0.82 / 1.64	0.70 / 1.40	
MF-R160	2.32 / 4.64	2.08 / 4.16	1.84 / 3.68	1.60 / 3.20	1.33 / 2.66	1.23 / 2.46	1.09 / 2.18	0.98 / 1.96	0.83 / 1.66	
MF-R185	2.68 / 5.36	2.41 / 4.82	2.13 / 4.26	1.85 / 3.70	1.54 / 3.08	1.42 / 2.84	1.26 / 2.52	1.13 / 2.26	0.96 / 1.92	
MF-R250	3.63 / 7.26	3.25 / 6.50	2.88 / 5.76	2.50 / 5.00	2.08 / 4.16	1.93 / 3.86	1.70 / 3.40	1.53 / 3.06	1.30 / 2.60	
MF-R250-0-10	3.63 / 7.26	3.25 / 6.50	2.88 / 5.76	2.50 / 5.00	2.08 / 4.16	1.93 / 3.86	1.70 / 3.40	1.53 / 3.06	1.30 / 2.60	
MF-R300	4.35 / 8.70	3.90 / 7.80	3.45 / 6.90	3.00 / 6.00	2.49 / 4.98	2.31 / 4.62	2.04 / 4.08	1.83 / 3.66	1.56 / 3.12	
MF-R400	5.80 / 11.6	5.20 / 10.4	4.60 / 9.20	4.00 / 8.00	3.32 / 6.64	3.08 / 6.16	2.72 / 5.44	2.44 / 4.88	2.08 / 4.16	
MF-R500	7.25 / 14.5	6.50 / 13.0	5.75 / 11.5	5.00 / 10.0	4.15 / 8.30	3.85 / 7.70	3.40 / 6.80	3.05 / 6.10	2.60 / 5.20	
MF-R600	8.70 / 17.4	7.80 / 15.6	6.90 / 13.8	6.00 / 12.0	4.98 / 9.96	4.62 / 9.24	4.08 / 8.16	3.66 / 7.32	3.12 / 6.24	
MF-R700	10.1 / 20.3	9.10 / 18.2	8.05 / 16.1	7.00 / 14.0	5.81 / 11.6	5.39 / 10.7	4.76 / 9.52	4.27 / 9.44	3.64 / 7.28	
MF-R800	11.6 / 23.2	10.4 / 20.8	9.20 / 18.4	8.00 / 16.0	6.64 / 13.2	6.16 / 12.3	5.44 / 10.8	4.88 / 9.76	4.16 / 8.32	
MF-R900	13.0 / 26.1	11.7 / 23.4	10.3 / 20.7	9.00 / 18.0	7.47 / 14.9	6.93 / 12.7	6.12 / 12.2	5.49 / 10.9	4.68 / 9.36	
MF-R1100	16.1 / 32.0	14.6 / 29.2	13.1 / 26.2	11.0 / 22.1	9.40 / 18.4	8.80 / 17.6	7.80 / 15.6	6.90 / 13.8	5.20 / 10.4	

Typical Time to Trip at 23 °C

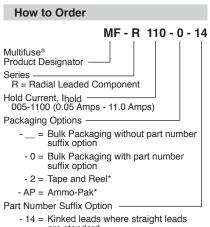


The Time to Trip curves represent typical performance of a device in a simulated application environment. Actual performance in specific customer applications may differ from these values due to the influence of other variables.



MF-R Series - PTC Resettable Fuses

BOURNS[®]

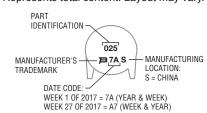


- are standard
- 17 = Straight leads where kinked leads are standard
- 99 = RoHS Compliancy As of date code April 1, 2005 all
 MF-R models are RoHS compliant.
 The suffix "-99" was originally provided
 to help customers distinguish between
 RoHS compliant and non-RoHS compliant products, but the -99 suffix pilant products, but the -99 suffix option is no longer necessary. The -99 suffix option will no longer be available starting January 1, 2020. See Note for more details.

*Packaged per EIA-468

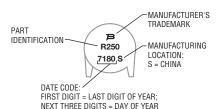
Typical Part Marking: MF-R005 - R025

Represents total content. Layout may vary.



Typical Part Marking: MF-R030 - R1100

Represents total content. Layout may vary.



Packaging Quantity

Packaging options	Models	Unit Quantity (Pcs.)	Unit	
Bulk	All models	500	Bag	
	MF-R005 ~ MF-R160	3000		
Tape & Reel	MF-R185 ~ MF-R400	1500	Reel	
	MF-R500 ~ MF-R1100	1000		
	MF-R005 ~ MF-R160	2000		
Ammo-Pack	MF-R185 ~ MF-R400	1000	Pack	
	MF-R500 ~ MF-R1100	500		

MF-R SERIES, REV. AK, EFFECTIVE 04/06/20

MF-R Series Tape and Reel Specifications

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	18 (.709)	-0.5/+1.0 (-0.02/+.039)
Hold down tape width	W_0	W_0	5 (.197)	min.
Hold down tape			No protrusion	
Adhesive tape position	W ₂	W ₂	3 (.118)	max.
Sprocket hole position	W_1	W_1	<u>9</u> (.354)	-0.5/+0.75 (-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	$\frac{18 \sim 20}{(.709 \sim .787)}$	
Height to seating plane (formed lead)	H ₀	Н0	<u>16</u> (.63)	±0.5 (±.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	P ₀	P_0	$\frac{12.7}{(0.5)}$	±0.3 (±.012)
Device pitch: MF-R005 ~ MF-R160	Р	Р	$\frac{12.7}{(0.5)}$	±0.3 (±.012)
Device pitch: MF-R185 ~ MF-R1100	Р	Р	<u>25.4</u> (1.0)	±0.6 (±.024)
Pitch tolerance			20 consecutive	±1 (±.039)
Composite tape thickness	t	t	0.9 (.035)	max.
Overall tape and lead thickness: MF-R005 ~ MF-R185	t ₁	t ₁	$\frac{2.0}{(0.079)}$	max.
Overall tape and lead thickness: MF-R250 ~ MF-R1100	t ₁	t ₁	2.3 (0.091)	max.
Splice sprocket hole alignment			0	±0.3 (±.012)
Front-to-back deviation	Δh	Δ_h	0	±1.0 (±.039)
Side-to-side deviation	$\Delta_{m{p}}$	$\Delta_{\mathcal{P}}$	0	±1.3 (±.051)
Ordinate to adjacent component lead	P ₁	P ₁	3.81 (0.150)	±0.7 (±0.028)
Lead spacing: MF-R005 ~ MF-R400	F	F	5.08 (0.2)	+0.6/-0.2 (+0.024/-0.008)
Lead spacing: MF-R500 ~ MF-R1100	F	F	10.2 (0.4)	+0.6/-0.2 (+0.024/-0.008)

- Continued on next page -

DIMENSIONS:

MM (INCHES)

MF-R Series Tape and Reel Specifications IEC EIA **Dimensions Dimension Description** Mark Mark **Tolerance** 62.0 Reel width including flanges and hub W_4 max. W2 (2.44)Dimension between flanges (measured at hub) Wз allow proper reeling and unreeling W1 370.0 Reel diameter Α а max. (14.57)±3.25 4.75 Space between flanges (at hub, excluding device) (.187)(±.128) 26.0 ±12.0 CArbor hole diameter С (1.024)(±.472) 80 Core diameter Ν n min. (3.15)62 372 372 Box dimensions max. (2.44)(14.6)(14.6)Consecutive missing places 3 max Empty places per reel Not specified

Taped Component Dimensions per EIA Mark Figure 1

Reference plane

H₁

P₁

P₂

User direction of feed

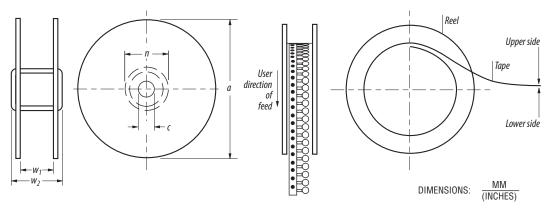
t₁

Cross section A - B

t₁

Cross section A - B

Reel Dimensions - per EIA Mark - Figure 2



Specifications are subject to change without notice.

Users should verify actual device performance in their specific applications.

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

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