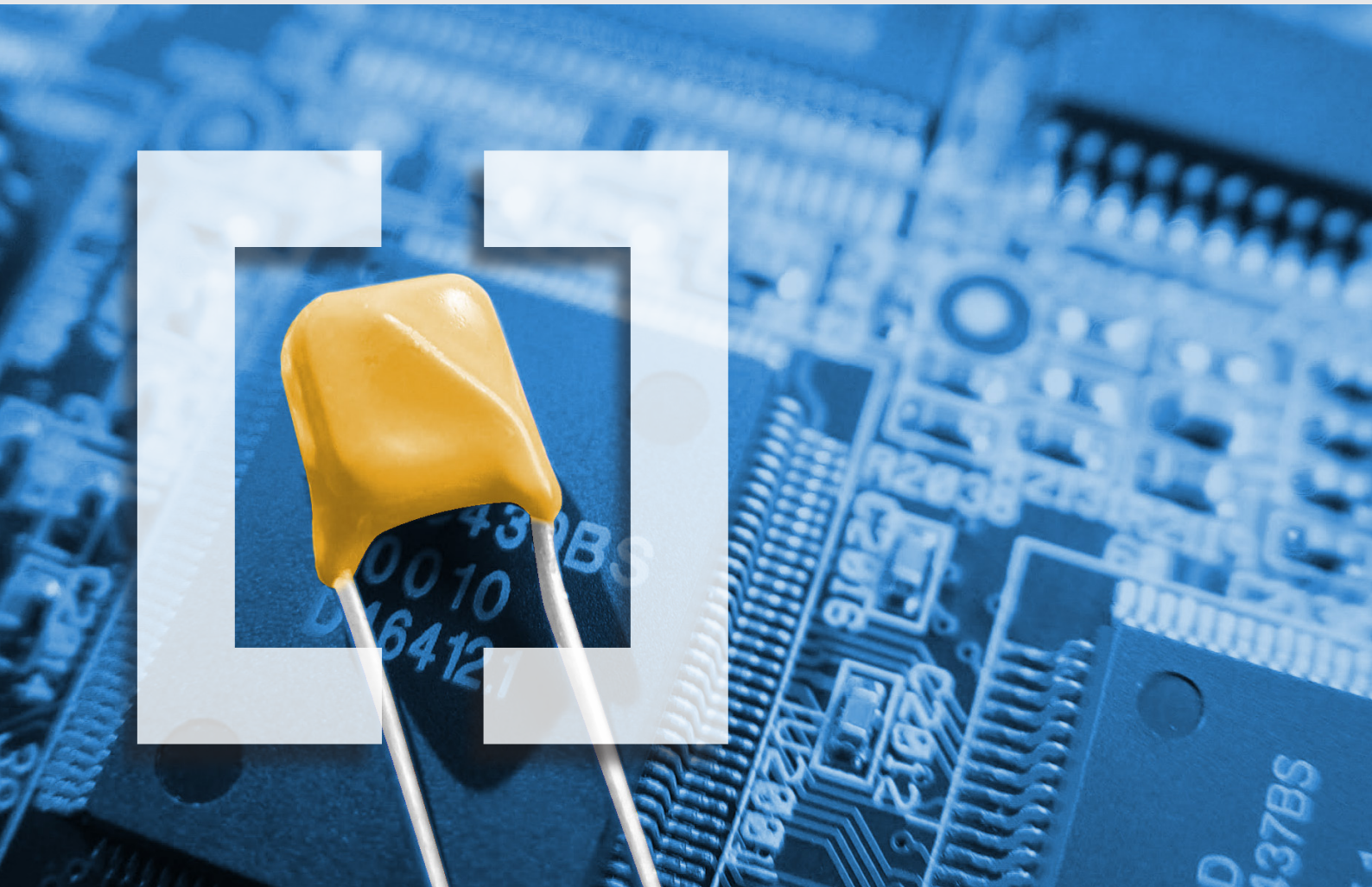
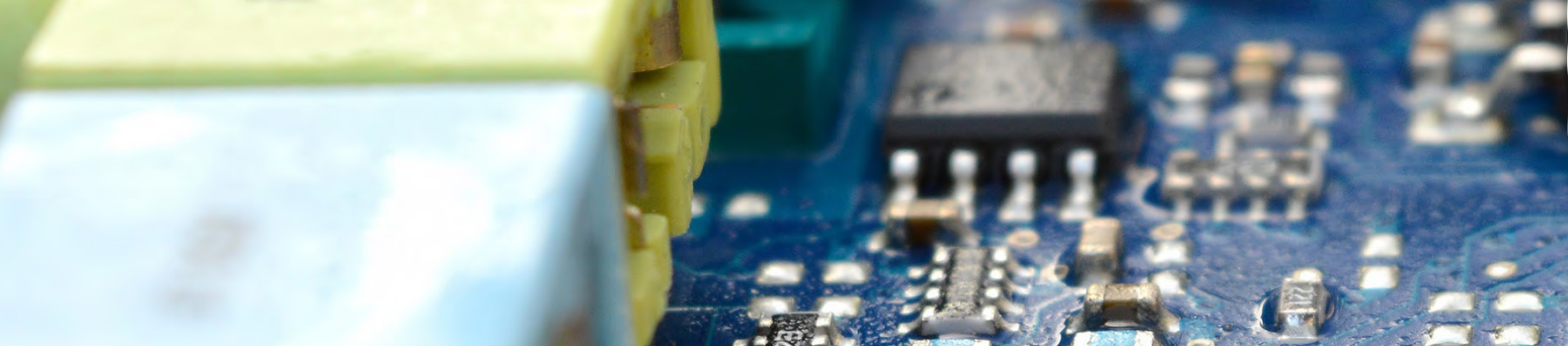


Resettable Fuses – PPTCs



V2.0

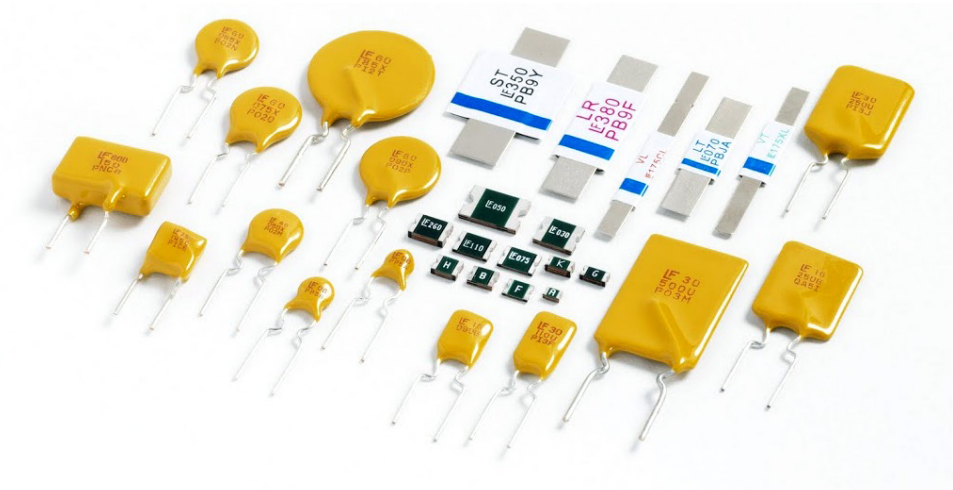


Rutronik and Littelfuse – a Strong Partnership

With Littelfuse Rutronik is sharing a long term partnership with one of the market leaders in the field of circuit protection components. As a result of the wide product portfolio and the high innovation grade of Littelfuse we are able to offer a suitable product for all kinds of challenges.



Michael Baumann
Product Sales Manager Mechanics



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Our Product Portfolio

Semiconductors	Boards & Systems
Passive Components	Storage Technologies
Electromechanical Components	Wireless Technologies
Displays & Monitors	

Our Initiatives

RUTRONIK AUTOMOTIVE	RUTRONIK EMBEDDED	RUTRONIK POWER	RUTRONIK SMART
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Innovative and flexible solutions: from supply chain management to individual logistics systems.

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Quality without Compromise from RUTRONIK

The integrated management system (IMS) encompasses quality control, information security, environmental protection, occupational health and safety.

Resettable Fuses – PPTCs

Due to increasing demands for electronic components in more and more ambitious applications, the protection of these systems has become very important. Especially in cost intensive applications a reliable overcurrent protection has to be ensured. A right circuit protection has therefore a direct influence on the correct function of the application and on its long life cycle and quality. Wherever a replacement of the protection components in case of need is not possible, the use of resettable fuses is indispensable.

Another key role plays miniaturization. The available space on a circuit board is limited for which reason the protection device has to meet this requirement as well. Littelfuse offers a full range of surface mount, radial leaded and axial leaded (battery strap) PPTC resettable overcurrent suppression devices. Surface mount PPTCs are available with broad range of hold current from 0.05 to 9.0 A while footprint varies from 0402 to 2920.

Radial PPTCs are rated from 6 to 600 V_{DC} respectively, and are designed for use in higher voltage applications that require minimal maintenance and are subject to repetitive overcurrent conditions.

Axial PPTCs are rated from 6 to 30 V_{DC} and are designed for use in battery pack applications that require thermal protection against overcurrent fault conditions. All Littelfuse PPTC devices are recognized under the Components Program of Underwriters Laboratory for both the US and Canada as well as being certified by TUV. All devices are lead free and RoHS compliant.





Littelfuse: Everywhere, Every Day

Founded in 1927, Littelfuse has become the world's most respected circuit protection brand, with well-established and growing platforms in power control and sensing technologies. Today, we are a global company, offering a diverse and extensive product portfolio - fuses, semiconductors, polymers, ceramics, relays, sensors, and more - serving the electronics, automotive and industrial markets. Each is manufactured to exacting quality standards and backed by an unwavering commitment to technical support and customer service. Our history of innovation, combined with our customer-first culture, drives us to collaborate with you to develop safer, more reliable products that are energy efficient and compliant with global regulations. We will partner with you to solve complex problems wherever electrical energy is used, bringing design, engineering, and technical expertise to deliver business results.

Why Choose Littelfuse

Littelfuse is the global leader in circuit protection solutions. We are the only company to offer all of the pertinent circuit protection technologies, with products that can be used in virtually everything that uses electrical energy. Complementing our wide portfolio of circuit protection products is a global network of design and technical support expertise. We offer decades of design experience to help you address application challenges and achieve regulatory compliance.



Your Single Source

Littelfuse offers an extensive circuit protection product line. We design forward-thinking, application-specific solutions to provide assurance that your most demanding requirements will be met. Our goal is to provide the most complete range of options so that you will not have to compromise.

Testing Support

Littelfuse can help ensure that your products will withstand most common threats repeatedly and will fail safely under extreme circumstances. We can serve as an independent source to provide assistance as you design by offering lab testing capabilities for customer applications. This testing includes industry-specific required power fault and Electrostatic Discharge (ESD)/ Electrically Fast Transients (EFT)/ lightning surge conditions.

Application Knowledge

For over 90 years, Littelfuse has maintained a focus on circuit protection, and we will continue to adapt as technologies evolve. Engineers and circuit designers around the world have come to rely on Littelfuse products and application knowledge to support their designs.

Global Support

Littelfuse stays close to customers. With manufacturing, lab, and design facilities located around the globe, application knowledge and technical support are locally available. Also, we offer a network of regional customer support offices and hundreds of independent authorized distributor contacts to assist you. Visit Littelfuse.com/contact-us to find local support near you.

Standards Compliance Expertise

Most Littelfuse products comply with a wide range of applicable industry and government guidelines as well as our own rigorous quality and reliability criteria. We continually look forward and adapt to changing requirements so that our products will comply with industry - specific national and international standards, such as CCC, CSA, IEC, IEEE, ISO, ITU, Meti, RoHS, Telcordia, TIA and many more.

Operational Excellence

With our global manufacturing footprint, Littelfuse is firmly committed to manufacturing quality products at a competitive price. We build quality into our products and services, striving for zero defects in everything we do, thereby reducing cost and increasing your total satisfaction. We strive to exceed your expectations every day.

Quality Assurance

Our global manufacturing facilities abide by strict quality assurance requirements and hold the following quality management system registrations: ISO 9001, ISO14001, IATF 16949



Expertise Applied | Answers Delivered

Surface Mount PPTC Devices

PolySwitch® Standard SMD

Series Name ¹	Size ²	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
femtoSMDC	0603	0.05 - 0.35	15	40	-40 to +85°C	•	•	•	•	•	•
picoSMDC	0805	0.1 - 1.1	15	100	-40 to +85°C	•	•	•	•	•	•
nanoSMDC	1206	0.1 - 2.0	60	100	-40 to +85°C	•	•	•	•	•	•
microSMD	1210	0.05 - 2.0	30	100	-40 to +85°C	•	•	•	•	•	•
miniSMDC	1812	0.1 - 3.0	60	100	-40 to +85°C	•	•	•	•	•	•
midSMD	2018	0.3 - 2.0	60	40	-40 to +85°C	•	•	•	•	•	•
SMDC	2920	0.3 - 3.1	60	50	-40 to +85°C	•	•	•	•	•	•
SMD	2920	0.3 - 3.0	60	50	-40 to +85°C	•	•	•	•	•	•
SMD2	3425	1.5 - 2.5	33	70	-40 to +85°C	•	•	•	•	•	•
LowRho PPTC (Low Resistance)	0402	0.1 - 0.5	6	40	-40 to +85°C	•	•	•	•	•	•
	0603	0.5 - 1.75	6	50	-40 to +85°C	•	•	•	•	•	•
	0805	0.75 - 3.0	6	50	-40 to +85°C	•	•	•	•	•	•
	1206	0.75 - 4.5	12	50	-40 to +85°C	•	•	•	•	•	•
	1210	1.75 - 4.5	6	50	-40 to +85°C	•	•	•	•	•	•
	1812	1.9 - 3.7	6	50	-40 to +85°C	•	•	•	•	•	•
	2920	7.0	6	50	-40 to +85°C	•	•	•	•	•	•
0603L	0603	0.04 - 0.5	24	40	-40 to +85°C	•	•	•	•	•	•
0805L	0805	0.05 - 1.1	30	100	-40 to +85°C	•	•	•	•	•	•
1206L	1206	0.05 - 2.0	60	100	-40 to +85°C	•	•	•	•	•	•
1210L	1210	0.05 - 2.0	30	100	-40 to +85°C	•	•	•	•	•	•
1812L	1812	0.1 - 3.0	60	100	-40 to +85°C	•	•	•	•	•	•
2016L	2016	0.3 - 5.0	60	100	-40 to +85°C	•	•	•	•	•	•
2920L	2920	0.3 - 7.0	60	50	-40 to +85°C	•	•	•	•	•	•
250S	3729	0.13	250 / 60	3	-40 to +85°C	•	-	•	•	•	•

PolySwitch® Automotive SMD

Series Name ¹	Size ²	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
femtoASMD	0603	0.05 - 0.1	15	10	-40 to +85°C	-	-	-	•	•	•
picoASMD	0805	0.1 - 0.12	15	20	-40 to +85°C	-	-	-	•	•	•
picoASMDCH	0805	0.1	16	40	-40 to +125°C	-	-	-	•	•	•
nanoASMD	1206	0.1 - 0.5	60	100	-40 to +85°C	-	-	-	•	•	•
nanoASMDCH	1206	0.16 - 0.5	30	50	-40 to +125°C	-	-	-	•	•	•
microASMD	1210	0.05 - 0.5	30	40	-40 to +85°C	-	-	-	•	•	•
miniASMD	1812	0.1 - 2.6	60	100	-40 to +85°C	-	-	-	•	•	•
ASMD	2920	0.3 - 3.0	60	40	-40 to +85°C	-	-	-	•	•	•
AHS	2018-3425	0.8 - 3.0	16	70	-40 to +125°C	-	-	-	•	•	•
ASMD	2920-3425	0.23 - 1.97	60	40	-40 to +85°C	-	-	-	•	•	•

(1) Detailed information can be found on our website. (2) Size for these surface mount items refers to common industry length and width dimensions of the device surface area. Example: 0402 = .04" x .02"





Surface Mount PPTC Devices (Continued)

PolySwitch® Oil Resistant SMD

Series Name ¹	Size ²	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
NANOSMDCH	1206	0.1 - 0.75	30	10	-40 to +125°C	-	•	-	•	•	•
MICROSMDCH	1210	0.1 - 0.5	30	10	-40 to +125°C	-	-	-	•	•	•
SMDCH	2920	0.5 - 2.0	24	20	-40 to +125°C	-	•	-	•	•	•

Radial Leaded PPTC Devices (Continued)

PolySwitch® Line Voltage

Series Name ¹	Size (mm)	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
LVR	6.9 x 9.9 to 24.9 x 34.8	0.05 - 2.0	240	1 - 20	-20 to +85°C	•	•	•	-	•	•
LVB	25.2 x 27.2	1.25	240	12.5	-40 to +85°C	-	•	-	-	•	•

Radial Leaded PPTC Devices

PolySwitch® Standard R-Line

Series Name ¹	Size (mm)	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
RUEF	7.4 x 12.2 to 24.1 x 29.0	0.90 - 9.0	30	100 / 70	-40 to +85°C	•	•	•	•	•	•
RKEF	7.1 x 11.43 to 24.1 x 29.0	0.50 - 5.0	60	40	-40 to +85°C	•	•	•	•	•	•
RXEF	8.0 x 8.3 to 27.2 x 31.8	0.05 - 0.17 / 0.20 - 3.75	60 / 72	40	-40 to +85°C	•	•	•	•	•	•
RUSBF	6.9 x 11.4 to 11.4 x 18.3	0.90 - 2.5 / 0.75 - 1.55	16 / 6	40	-40 to +85°C	•	•	•	•	•	•
RGEF	7.1 x 11.0 to 23.5 x 27.9	2.5 - 14.0	16	100	-40 to +85°C	•	•	•	•	•	•
RHEF	6.9 x 10.8 to 23.5 x 28.7	0.50 - 1.0 / 2.0 - 15.0	30 / 16	40 / 100	-40 to +125°C	•	•	•	•	•	•
USBR	6.9 x 11.4 to 11.4 x 18.3	0.75 - 2.50	6 / 16	40	-40 to +85°C	•	•	•	•	•	•
16R	7.1 x 11.0 to 23.5 x 27.9	2.50 - 14.00	16	100	-40 to +85°C	•	•	•	•	•	•
30R	7.4 x 12.2 to 24.1 x 31.6	0.90 - 9.00	30	40	-40 to +85°C	•	•	•	•	•	•
60R	7.4 x 11.7 to 26.3 x 31.1	0.10 - 3.75	60	40	-40 to +85°C	•	•	•	•	•	•
72R	7.4 x 11.7 to 26.3 x 31.1	0.20 - 3.75	72	40	-40 to +85°C	•	•	•	•	•	•
250R	5.8 x 9.9 to 9.5 x 12	0.08 - 0.18	250	3 / 10	-40 to +85°C	•	•	•	•	•	•
600R	9.0 x 12.5 to 16.0 x 12.6	0.15 - 0.16	600	3	-40 to +85°C	•	•	•	•	•	•

Battery PPTC Devices

PolySwitch® Straps

Series Name ¹	Size (mm)	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
VLR	23.2 x 3.9 to 23.1 x 5.3	1.70 - 2.30	12	100	-40 to +85°C	•	•	•	•	•	•
VLP	11.8 x 4.6 to 23.1 x 5.3	1.20 - 2.70	16	60	-40 to +85°C	•	•	•	•	•	•
VTP	25.6 x 2.9 to 23.1 x 5.3	1.10 - 2.10	16	100	-40 to +85°C	•	•	•	•	•	•
LR4	22.1 x 5.5 to 66.5 x 10.0	1.90 - 13.0	15/20	100	-40 to +85°C	•	•	•	•	•	•
SRP	22.1 x 5.2 to 32.4 x 13.6	1.20 - 4.20	15/30	100	-40 to +85°C	•	•	•	•	•	•

PolySwitch® Automotive R-Line

Series Name ¹	Size (mm)	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
AGRF	8.9 x 14.1 to 23.5 x 28.7	4.0 - 14.0	16	100	-40 to +85°C	-	-	-	•	•	•
AHRF	6.9 x 10.8 to 23.5 x 28.7	0.5 - 1.0 / 2.0 - 15.0	30 / 16	40 / 100	-40 to +125°C	-	-	-	•	•	•
AHEF	6.9 x 10.8 to 23.5 x 27.9	0.5 - 10.0	32	100	-40 to +125°C	-	-	-	•	•	•

How is the PPTC used here?

ASMD & miniASMD Surface Mount Resettable PPTCs

Resettable PPTC overcurrent protection helps prevent system breakdowns and enhances safety. Surface mounted automotive PPTCs safeguard a wide range of functions such as powered antennas, CANbus, touchscreens, USB ports, HDMI ports, and I/O lines.




(1) Detailed information can be found on our website. (2) Size for these surface mount items refers to common industry length and width dimensions of the device surface area. Example: 0402 = .04" x .02"



Battery PPTC Devices (Continued)


Poly-Switch® LowRho SMD



Series Name ¹	Size ²	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
Low Rho series	0402	0.1 - 1.0A	6	40	-40 to +85°C	•	•	•	•	•	•
	0603	0.5 - 3.0A	6	50	-40 to +85°C	•	•	•	•	•	•
	0805	0.75 - 4.0A	6	50	-40 to +85°C	•	•	•	•	•	•
	1206	0.75 - 6.0A	12	50	-40 to +85°C	•	•	•	•	•	•
	1210	1.75 - 9.0A	6	50	-40 to +85°C	•	•	•	•	•	•
	1812	1.9 - 3.7A	6	50	-40 to +85°C	•	•	•	•	•	•
	2920	5.0 - 7.0A	6	50	-40 to +85°C	•	•	•	•	•	•

Battery Mini-Breakers

Battery Mini-Breakers (Thermal Cutoff Devices)



Series Name ¹	Size (mm)	Operation Temp.	Reset Temp.	Hold Current @25°C (I _{HOLD})	Contact Rating	Max. Breaking Current	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
								cUR	UR	TUV			
MHP-TAM6	5.80x3.80x1.15 _{MAX}	72-90°C	≥40°C	6A	DC 9V/12A, 6,000 Cycles	DC 5V/40A, 100 Cycles	-30 to +100°C	•	•	•	•	•	•
MHP-TAM15	5.80x3.80x1.15 _{MAX}	72-90°C	≥40°C	15A	DC 9V/25A, 6000 Cycles	DC 5V/80A, 100 Cycles	-30 to +100°C	•	•	•	•	•	•
MHP-TAT18	5.80x3.80x1.15 _{MAX}	72-90°C	≥40°C	18A	DC 9V/30A, 6000 Cycles	DC 5V/80A, 100 Cycles	-30 to +100°C	•	•	•	•	•	•
MHP-TAC6	4.75x2.80x0.85 _{MAX}	72-90°C	≥40°C	6A	DC 12V/12A, 6000 Cycles	DC 5V/40A, 100 Cycles	-30 to +100°C	•	•	•	•	•	•
MHP-TAC15	4.75x2.80x0.85 _{MAX}	72-90°C	≥40°C	15A	DC 12V/25A, 6000 Cycles	DC 5V/80A, 100 Cycles	-30 to +100°C	•	•	•	•	•	•

(1) Detailed information can be found on our website. (2) Size for these surface mount items refers to common industry length and width dimensions of the device surface area. Example: 0402 = .04" x .02"

How is the Mini-Breaker used here?


MHP-TA Metal Hybrid PPTC Devices

Mini-breakers provide resettable overtemperature and over-current protection in high-capacity Li-ion polymer and prismatic cells. They are capable of handling the high battery-discharge currents in notebook PCs, gaming PCs, ultra-books, tablets, smartphones, and other small portable electronic devices.



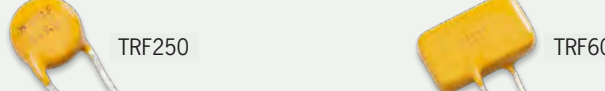
Telecom PPTC Devices

PolySwitch® Surface Mount & Chips



Series Name ¹	Size (mm)	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
TCF250	4.9 x 4.9x2.3 to 7.1x7.1x1.6	0.09 - 0.18	250	3	-40 to +85°C	-	•	-	•	•	•
TSL250	7.9x5.3	0.08 - 0.13	250	3	-40 to +85°C	•	•	•	•	•	•
TS250	9.4x7.4	0.13	250	3	-40 to +85°C	•	•	•	•	•	•
TSM250	8.9x8.6	0.13	250	3	-40 to +85°C	-	•	-	•	•	•
TSV250	6.1x6.9	0.13	250	3	-40 to +85°C	•	•	•	•	•	•
TS600	19.4x8.3	0.17 - 0.4	600	3	-40 to +85°C	•	•	-	•	•	•
TSM600	17.6x11.2	0.25 - 0.4	600	3	-40 to +85°C	•	•	-	•	•	•

PolySwitch® Radial Leaded



Series Name ¹	Size (mm)	Hold Current (I _{HOLD})	Max Voltage (V _{MAX})	Max Fault Current (I _{MAX})	Operating Temp. Range	Agency Approvals			Halogen Free	RoHS	Lead Free
						cUR	UR	TUV			
TRF250	4.8x9.3 to 9.0x12.0	0.055 - 0.184	250	3	-40 to +85°C	•	•	•	•	•	•
TRF600	9.0x12.5 to 16.0x12.6	0.15 - 0.4	600	3	-40 to +85°C	•	•	•	•	•	•
TR600	13.5x12.6	0.15	600	3	-40 to +85°C	-	-	-	•	•	•

(1) Detailed information can be found on our website.



Five Good Reasons for Choosing Rutronik24

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Advantages

for Developers

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- Alternative replacement items suggested, e.g. with discontinued components

for Buyers

- Quotation request or direct ordering with the delivery and payment conditions agreed with Rutronik
- Position your complete component list in the mass quotation tool and receive a complete offer
- Direct contact with your Rutronik contact person – worldwide

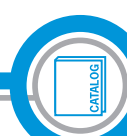


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