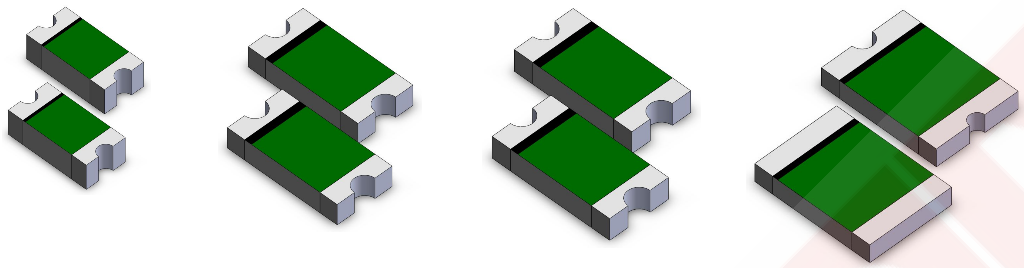
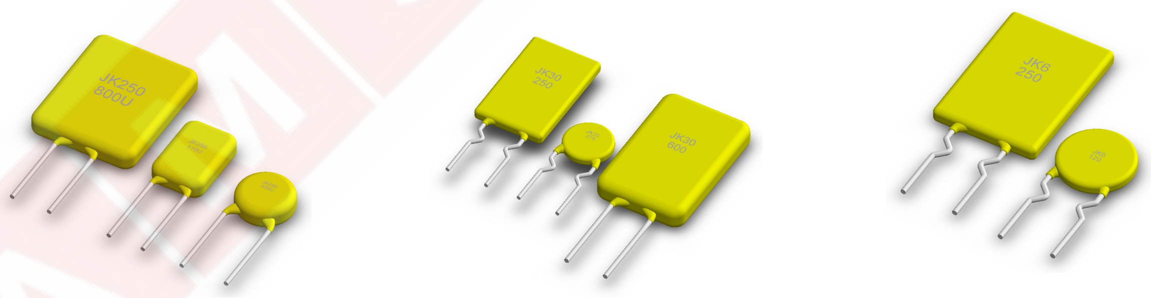


Polymeric Positive Temperature Coefficient

PPTC自恢復保險絲

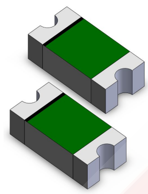


Surface Mount Resettable Polymer PTCs

SMD0603 Series

Description

The SMD0603 Series PTC provides surface mount over-current protection for applications where space is at a premium and resettable protection is desired.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Fast time-to-trip
- Compact design saves board space
- Low resistance
- Low-profile

Applicable

- PC motherboard - plug and play protection
- Mobile phones - battery and port protection
- Game console port protection
- USB peripherals
- Disk drive
- PDAS / digital cameras
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance	
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD0603-010	0.10	0.30	15	40	0.5	0.50	1.00	0.90	6.00
SMD0603-020	0.20	0.50	9.0	40	0.5	1.00	0.60	0.55	3.50
SMD0603-025	0.25	0.55	9.0	40	0.5	8.00	0.80	0.50	3.00
SMD0603-035	0.35	0.75	6.0	40	0.5	8.00	0.10	0.20	1.40
SMD0603-050	0.50	1.00	6.0	40	0.5	8.00	0.10	0.10	0.80
SMD0603-075	0.75	1.50	6.0	40	0.5	8.00	0.10	0.06	0.45
SMD0603-100	1.00	2.00	6.0	40	0.5	8.00	0.10	0.04	0.30

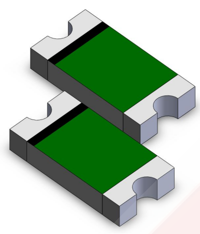
I_{hold}= Hold current: maximum current device will pass without tripping in 23°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 23°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 23°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 23°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Surface Mount Resettable Polymer PTCs

SMD0805 Series

Description

The SMD0805 Series PTC provides surface mount over-current protection for applications where space is at a premium and resettable protection is desired.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Fast time-to-trip
- Compact design saves board space
- Low resistance
- Low-profile

Applicable

- PC motherboard - plug and play protection
- Mobile phones - battery and port protection
- Game console port protection
- USB peripherals
- Disk drive
- PDAS / digital cameras
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance	
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD0805-010	0.10	0.30	15	100	0.5	0.50	1.50	1.000	6.000
SMD0805-020	0.20	0.50	9	100	0.5	8.00	0.02	0.650	3.500
SMD0805-035	0.35	0.75	6	100	0.5	8.00	0.10	0.250	1.200
SMD0805-050	0.50	1.00	6	100	0.5	8.00	0.10	0.150	0.850
SMD0805-075	0.75	1.50	6	40	0.6	8.00	0.20	0.090	0.385
SMD0805-100	1.00	1.95	6	100	0.6	8.00	0.30	0.060	0.230

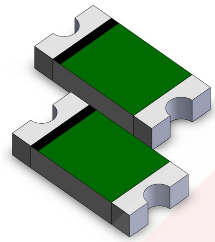
I_{hold}= Hold current: maximum current device will pass without tripping in 23°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 23°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 23°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 23°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Surface Mount Resettable Polymer PTCs

SMD1206 Series

Description

The SMD1206 Series PTC provides surface mount over-current protection for applications where space is at a premium and resettable protection is desired.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Fast time-to-trip
- Compact design saves board space
- Low resistance
- Low-profile

Applicable

- PC motherboard - plug and play protection
- Mobile phones - battery and port protection
- Game console port protection
- USB peripherals
- Disk drive
- PDAS / digital cameras
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance	
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD1206-005	0.05	0.15	60	10	0.4	0.25	1.50	3.600	50.000
SMD1206-010	0.10	0.25	60	10	0.4	0.50	1.00	1.600	15.000
SMD1206-012	0.12	0.29	60	100	0.4	0.50	1.00	1.600	15.000
SMD1206-020	0.20	0.46	30	100	0.6	8.00	0.08	0.350	2.700
SMD1206-025	0.25	0.50	16	100	0.6	8.00	0.08	0.350	2.500
SMD1206-035	0.35	0.75	6	100	0.6	8.00	0.10	0.250	1.300
SMD1206-050	0.50	1.00	6	100	0.6	8.00	0.10	0.150	0.700
SMD1206-050/13.2V	0.50	1.00	13.2	100	0.6	8.00	0.10	0.150	0.700
SMD1206-075	0.75	1.50	6	100	0.6	8.00	0.20	0.090	0.500
SMD1206-100	1.00	1.80	6	100	0.6	8.00	0.30	0.055	0.270
SMD1206-110	1.10	2.20	6	100	0.6	8.00	0.30	0.050	0.250
SMD1206-150	1.50	3.00	6	100	0.8	8.00	1.00	0.040	0.130
SMD1206-200	2.00	3.50	6	100	0.8	8.00	1.50	0.018	0.080

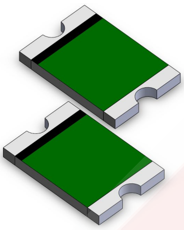
I_{hold}= Hold current: maximum current device will pass without tripping in 23°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 23°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 23°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 23°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Surface Mount Resettable Polymer PTCs

SMD1210 Series

Description

The SMD1210 Series PTC provides surface mount over-current protection for applications where space is at a premium and resettable protection is desired.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Fast time-to-trip
- Compact design saves board space
- Low resistance
- Low-profile

Applicable

- PC motherboard - plug and play protection
- Mobile phones - battery and port protection
- Game console port protection
- USB peripherals
- Disk drive
- PDAS / digital cameras
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance	
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD1210-005	0.05	0.15	30	100	0.60	0.25	1.50	2.800	50.000
SMD1210-010	0.10	0.30	30	100	0.60	0.50	0.60	0.800	15.000
SMD1210-020	0.20	0.40	30	100	0.60	8.00	0.02	0.400	5.000
SMD1210-035	0.35	0.75	6	100	0.60	8.00	0.20	0.200	1.3000
SMD1210-050	0.50	1.00	13.2	100	0.60	8.00	0.10	0.180	0.900
SMD1210-075	0.75	1.50	6	100	0.60	8.00	0.10	0.070	0.400
SMD1210-110	1.10	2.20	6	100	0.60	8.00	0.30	0.050	0.210
SMD1210-150	1.50	3.00	6	100	0.60	8.00	0.50	0.030	0.110
SMD1210-175	1.75	3.50	6	100	0.80	8.00	0.60	0.020	0.080
SMD1210-200	2.00	4.00	6	100	0.80	8.00	1.00	0.015	0.070

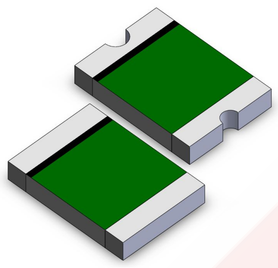
I_{hold}= Hold current: maximum current device will pass without tripping in 23°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 23°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 23°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 23°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Surface Mount Resettable Polymer PTCs

SMD1812 Series

Description

The SMD1812 Series PTC provides surface mount over-current protection for applications where space is at a premium and resettable protection is desired.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Fast time-to-trip
- Compact design saves board space
- Low resistance
- Low-profile

Applicable

- PC motherboard - plug and play protection
- Mobile phones - battery and port protection
- Game console port protection
- USB peripherals
- Disk drive
- PDAS / digital cameras
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance	
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD1812-010	0.10	0.30	30	100	0.8	0.5	1.50	0.750	15.000
SMD1812-014	0.14	0.34	60	100	0.8	1.5	0.15	0.650	6.000
SMD1812-020	0.20	0.40	30	100	0.8	8.0	0.02	0.350	5.000
SMD1812-030	0.30	0.60	30	100	0.8	8.0	0.10	0.250	3.000
SMD1812-050	0.50	1.00	15	100	0.8	8.0	0.150	0.150	1.000
SMD1812-050/33V	0.50	1.00	33	100	0.8	8.0	0.15	0.150	1.000
SMD1812-050/60V	0.50	1.00	60	100	0.8	8.0	0.15	0.150	1.400
SMD1812-075	0.75	1.50	13.2	100	0.8	8.0	0.20	0.090	0.450
SMD1812-110	1.10	2.20	8.0	100	0.8	8.0	0.30	0.050	0.250
SMD1812-110/16V	1.10	2.20	16.0	100	0.8	8.0	0.30	0.050	0.250
SMD1812-125	1.25	2.50	16.0	100	0.8	8.0	0.40	0.050	0.140
SMD1812-150	1.50	3.00	8.0	100	0.8	8.0	0.50	0.040	0.160
SMD1812-150/16V	1.50	3.00	16.0	100	0.8	8.0	0.50	0.040	0.160
SMD1812-160	1.60	3.20	8.0	100	0.8	8.0	1.00	0.030	0.130
SMD1812-200	2.00	4.00	8.0	100	0.8	8.0	2.00	0.020	0.100
SMD1812-260	2.60	5.00	8.0	100	0.8	8.0	2.50	0.015	0.050
SMD1812-300	3.00	6.00	8.0	100	0.8	8.0	4.00	0.012	0.040
SMD1812-350	3.50	7.50	8.0	100	2.0	10.0	4.00	0.008	0.030

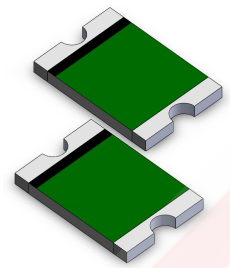
I hold= Hold current: maximum current device will pass without tripping in 23°C still air.
I trip= Trip current: minimum current at which the device will trip in 23°C still air.
V max= Maximum voltage device can withstand without damage at rated current (Imax)
I max= Maximum fault current device can withstand without damage at rated voltage (Vmax)
Pdtyp.= Power dissipated from device when in the tripped state at 23°C still air.
R min= Minimum resistance of device in initial (un-soldered) state.
R 1max= Maximum resistance of device at 23°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Surface Mount Resettable Polymer PTCs

SMD2920 Series

Description

The SMD2920 Series PTC provides surface mount over-current protection for applications where space is at a premium and resettable protection is desired.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Fast time-to-trip
- Compact design saves board space
- Low resistance
- Low-profile

Applicable

- PC motherboard - plug and play protection
- Mobile phones - battery and port protection
- Game console port protection
- USB peripherals
- Disk drive
- PDAS / digital cameras
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance	
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD2920-030	0.30	0.60	60	100	1.5	1.5	3.0	0.600	4.800
SMD2920-050	0.50	1.00	60	100	1.5	2.5	4.0	0.180	1.400
SMD2920-075	0.75	1.50	33	100	1.5	8.0	0.3	0.100	1.000
SMD2920-100	1.10	2.20	33	100	1.5	8.0	0.5	0.065	0.410
SMD2920-125	1.25	2.50	33	100	1.5	8.0	2.0	0.050	0.250
SMD2920-150	1.50	3.00	33	100	1.5	8.0	2.0	0.035	0.230
SMD2920-185	1.85	3.70	33	100	1.5	8.0	2.5	0.030	0.150
SMD2920-200	2.00	4.00	16	100	1.5	8.0	4.5	0.020	0.120
SMD2920-250	2.50	5.00	16	100	1.5	8.0	16.0	0.020	0.085
SMD2920-260	2.60	5.20	6	100	1.5	8.0	10.0	0.014	0.075
SMD2920-300	3.00	6.00	6	40	1.5	8.0	20.0	0.012	0.048
SMD2920-300/16V	3.00	6.00	16	100	1.5	8.0	20.0	0.012	0.048

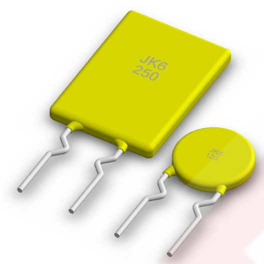
I_{hold}= Hold current: maximum current device will pass without tripping in 23°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 23°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 23°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 23°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Radial Lead Resettable Polymer PTCs

JK6 Series

Description

JK6 series radial leaded PTCs are designed to provide resettable over-current protection for USB, Low voltage electrical equipment applications. With maximum 6 volts and maximum 40-ampere short circuit rating.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- 40A short circuit rating
- 6V operating voltage
- Fast time-to-trip
- Meets all USB protection requirements

Applicable

- Computers and peripherals
- USB hubs ,ports and peripherals
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK6-050	0.50	1.0	6	40	0.45	2.50	3.8	200	450	675
JK6-065	0.65	1.3	6	40	0.50	3.25	4.5	120	270	400
JK6-075	0.75	1.5	6	40	0.55	3.75	5.2	110	230	345
JK6-090	0.90	1.8	6	40	0.60	4.50	5.9	90	180	270
JK6-110	1.10	2.2	6	40	0.70	5.50	6.6	70	140	210
JK6-120	1.20	2.4	6	40	0.75	6.00	7.0	70	140	210
JK6-135	1.35	2.7	6	40	0.80	6.75	7.3	55	110	150
JK6-160	1.60	3.2	6	40	0.90	8.00	8.0	45	90	115
JK6-185	1.85	3.7	6	40	1.00	9.25	8.7	40	80	100
JK6-250	2.50	5.0	6	40	1.20	12.5	10.3	27	55	70
JK6-300	3.00	6.00	6	40	1.20	12.5	10.3	20	70	140

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Dimensions

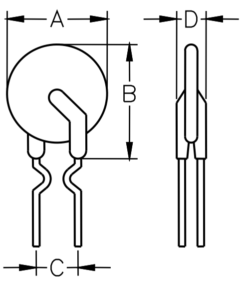


Figure1

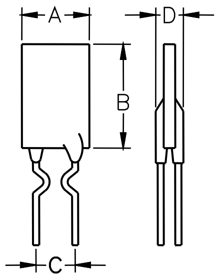


Figure2

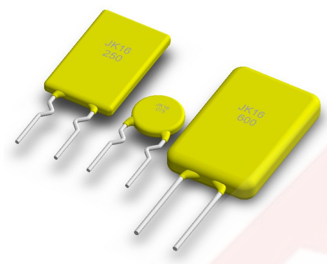
Part Number	Figure	A	B	C	D	Lead (dia)		Packaging (Bulk Pack)
		mm Max.	mm Max.	mm Typ.	mm Max.	Inches	mm	
JK6-075	Figure1	7.40	12.7	5.1	3.1	0.020	0.5	1000
JK6-090	Figure1	7.40	13.0	5.1	3.1	0.020	0.5	1000
JK6-110	Figure2	7.80	13.0	5.1	3.1	0.020	0.5	1000
JK6-120	Figure1	7.40	13.5	5.1	3.1	0.020	0.5	1000
JK6-135	Figure2	7.40	13.5	5.1	3.1	0.020	0.5	1000
JK6-155	Figure1	7.40	13.5	5.1	3.1	0.020	0.5	1000
JK6-160	Figure2	7.80	16.0	5.1	3.1	0.020	0.5	1000
JK6-185	Figure2	7.80	16.0	5.1	3.1	0.020	0.5	1000
JK6-200	Figure2	8.80	16.0	5.1	3.1	0.020	0.5	1000
JK6-250	Figure2	10.00	16.0	5.1	3.1	0.020	0.5	1000
JK6-300	Figure2	10.00	16.5	5.1	3.1	0.020	0.5	1000

Radial Lead Resettable Polymer PTCs

JK16 Series

Description

JK16 series radial leaded PTCs are designed to provide resettable over-current protection serving a wide range of electronics applications. With maximum 16 volts and maximum 100-ampere short circuit rating.



Features

- RoHS compliant, Lead-Free and Halogen-Free
- Max 100 A short current rating
- 16V operating voltage
- Fast time-to-trip

Applicable

- Computers and peripherals
- Power ports
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK16-300	3.00	6.0	16	100	2.3	9.0	15	20	60	80
JK16-400	4.00	8.0	16	100	2.4	12.0	15	20	40	60
JK16-500	5.00	10.0	16	100	2.6	15.0	15	14	25	33
JK16-600	6.00	12.0	16	100	2.8	18.0	15	10	21	31
JK16-700	7.00	14.0	16	100	3.0	21.0	15	8	15	20
JK16-800	8.00	16.0	16	100	3.0	24.0	15	6	13	18
JK16-900	9.00	18.0	16	100	3.3	27.0	25	4	12	16
JK16-1000	10.0	20.0	16	100	3.7	30.0	30	4	11	15
JK16-1100	11.0	22.0	16	100	3.7	33.0	30	3	9	13
JK16-1200	12.0	24.0	16	100	4.2	36.0	30	3	8	12
JK16-1400	14.0	28.0	16	100	4.2	40.0	50	3	7	11

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Dimensions

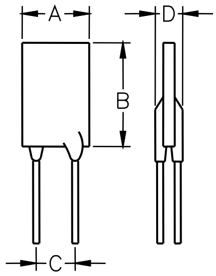


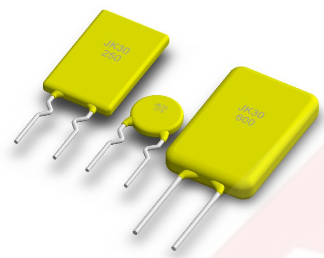
Figure1

Part Number	Figure	A	B	C	D	Lead (dia)		Packaging (Bulk Pack)
		mm Max.	mm Max.	mm Typ.	mm Max.	Inches	mm	
JK16-300	Figure1	9.0	12.0	5.1	3.0	0.031	0.8	1000
JK16-400	Figure1	10.0	13.0	5.1	3.0	0.031	0.8	1000
JK16-500	Figure1	10.7	15.0	5.1	3.0	0.031	0.8	1000
JK16-600	Figure1	13.5	15.0	5.1	3.0	0.031	0.8	1000
JK16-700	Figure1	13.5	18.0	5.1	3.0	0.031	0.8	500
JK16-800	Figure1	13.5	18.0	5.1	3.0	0.031	0.8	500
JK16-900	Figure1	15.0	23.0	5.1	3.0	0.031	0.8	500
JK16-1000	Figure1	18.0	24.0	5.1	3.0	0.031	0.8	200
JK16-1100	Figure1	18.0	24.0	5.1	3.0	0.031	0.8	200
JK16-1200	Figure1	22.5	25.0	10.5	3.0	0.031	0.8	200
JK16-1400	Figure1	24.0	28.0	10.5	3.0	0.031	0.8	200

Radial Lead Resettable Polymer PTCs

Description

JK30 series radial leaded PTCs are designed to provide over-current protection for low voltage (≤30V) applications where space is not a concern and resettable protection is preferred.



Features

- Cured, flame retardant epoxy polymer meets UL 94V-0 requirements
- 30V operating voltage
- Fast time-to-trip
- RoHS compliant, Lead-Free and Halogen-Free

Applicable

- Computers and peripherals
- Power ports
- Motor protection
- Automotive application
- USB hubs ,ports and peripherals
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK30-075	0.75	1.5	30	40	0.6	3.75	7.00	200	370	620
JK30-090	0.90	1.8	30	40	0.7	4.50	7.10	130	220	300
JK30-110	1.10	2.2	30	40	0.7	5.50	6.60	90	200	260
JK30-135	1.35	2.7	30	40	0.8	6.75	8.00	70	160	220
JK30-160	1.60	3.2	30	40	0.9	8.00	8.70	60	140	200
JK30-185	1.85	3.7	30	40	1.0	9.25	8.00	50	120	200
JK30-200	2.00	4.0	30	40	1.2	10.0	11.0	40	100	160
JK30-250	2.5	5.0	30	40	1.2	12.5	10.3	30	80	140
JK30-300	3.0	6.0	30	100	2.0	15.0	10.8	30	70	140
JK30-400	4.0	8.0	30	100	2.5	20.0	12.7	10	60	120
JK30-500	5.0	10.0	30	100	3.0	25.0	14.5	10	50	90
JK30-600	6.0	12.0	30	100	3.5	30.0	16.0	5	40	70
JK30-700	7.0	14.0	30	100	3.8	35.0	17.5	5	30	60
JK30-800	8.0	16.0	30	100	4.0	40.0	18.8	5	25	45
JK30-900	9.0	18.0	30	100	4.2	45.0	20.0	5	20	35

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Dimensions

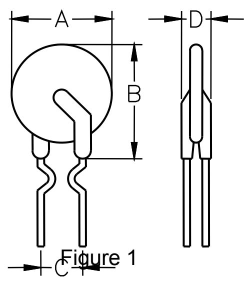


Figure1

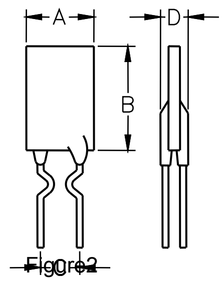


Figure2

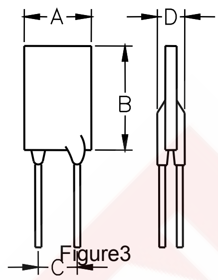


Figure3

Part Number	Figure	A	B	C	D	Lead (dia)		Packaging (Bulk Pack)
		mm Max.	mm Max.	mm Typ.	mm Max.	Inches	mm	
JK30-075	Figure1	7.4	12.2	5.1	3.0	0.020	0.5	1000
JK30-090	Figure2	7.4	14.0	5.1	3.0	0.020	0.5	1000
JK30-110	Figure2	7.4	14.0	5.1	3.0	0.020	0.5	1000
JK30-135	Figure2	9.2	13.5	5.1	3.0	0.020	0.5	1000
JK30-160	Figure2	9.2	15.2	5.1	3.0	0.020	0.5	1000
JK30-185	Figure2	9.2	15.2	5.1	3.0	0.020	0.5	1000
JK30-200	Figure2	15.2	15.2	5.1	3.0	0.020	0.5	1000
JK30-250	Figure2	13.2	18.3	5.1	3.0	0.020	0.5	1000
JK30-300	Figure3	13.2	17.3	5.1	3.0	0.031	0.8	1000
JK30-400	Figure3	14.0	20.1	5.1	3.0	0.031	0.8	500
JK30-500	Figure3	14.0	20.1	10.5	3.0	0.031	0.8	500
JK30-600	Figure3	17.2	24.9	10.5	3.0	0.031	0.8	500
JK30-700	Figure3	17.2	24.9	10.5	3.0	0.031	0.8	200
JK30-800	Figure3	23.5	29.2	10.5	3.0	0.031	0.8	200
JK30-900	Figure3	23.5	29.2	10.5	3.0	0.031	0.8	200

Radial Lead Resettable Polymer PTCs

JK60 Series

Description

JK60 series radial leaded PTCs are designed to provide over-current protection for low voltage (≤60V) applications where space is not a concern and resettable protection is preferred.

Features

- Cured, flame retardant epoxy polymer meets UL 94V-0 requirements
- 60V operating voltage
- Fast time-to-trip
- RoHS compliant, Lead-Free and Halogen-Free

Applicable

- USB hubs ,ports and peripherals
- Power ports
- IEEE1394 ports
- Motor protection
- Automotive application
- Computers and peripherals
- General electronics

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK60-005	0.05	0.10	60	40	0.30	0.25	5.0	7.30	20.00	30.00
JK60-010	0.10	0.20	60	40	0.38	0.50	5.0	2.50	7.50	12.00
JK60-017	0.17	0.34	60	40	0.48	0.85	5.0	2.00	5.21	8.00
JK60-020	0.20	0.40	60	40	0.41	1.00	5.0	1.50	2.84	4.50
JK60-025	0.25	0.50	60	40	0.45	1.25	5.0	1.00	1.95	3.00
JK60-030	0.30	0.60	60	40	0.49	1.50	5.0	0.76	1.38	2.20
JK60-040	0.40	0.80	60	40	0.56	2.00	5.0	0.55	0.88	1.40
JK60-050	0.50	1.00	60	40	0.77	2.50	5.0	0.50	0.79	1.20
JK60-065	0.65	1.30	60	40	0.88	3.25	5.0	0.31	0.50	0.74
JK60-075	0.75	1.50	60	40	0.92	3.75	5.0	0.25	0.42	0.62
JK60-090	0.90	1.80	60	40	0.99	4.50	5.0	0.20	0.33	0.49
JK60-110	1.10	2.20	60	40	1.50	5.50	8.0	0.15	0.27	0.40
JK60-135	1.35	2.70	60	40	1.70	6.75	8.0	0.12	0.21	0.32
JK60-160	1.60	3.20	60	40	1.90	8.00	8.0	0.09	0.16	0.24
JK60-185	1.85	3.70	60	40	2.10	9.25	8.0	0.08	0.14	0.21
JK60-200	2.00	4.00	60	40	2.20	10.00	8.0	0.07	0.14	0.16
JK60-250	2.50	5.00	60	40	2.50	12.50	8.0	0.05	0.10	0.15
JK60-300	3.00	6.00	60	40	2.80	15.00	8.0	0.04	0.08	0.12
JK60-375	3.75	7.50	60	40	3.20	18.75	24.0	0.03	0.06	0.10
JK60-500	5.00	10.00	60	40	4.20	25.00	24.0	0.02	0.06	0.10

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Dimensions

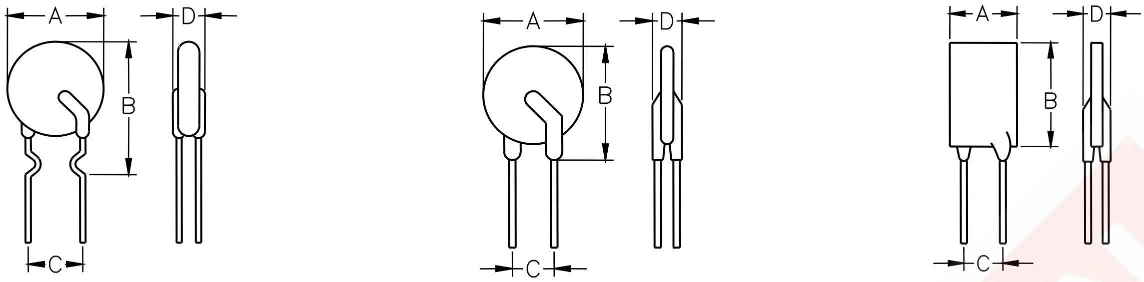


Figure1 Figure2 Figure3

Part Number	Figure	A	B	C	D	Lead (dia)		Packaging (Bulk Pack)
		mm Max.	mm Max.	mm Typ.	mm Max.	Inches	mm	
JK60-005	Figure1(2)	5.0	8.5	5.1	3.1	0.020	0.5	1000
JK60-010	Figure1(2)	5.5	9.5	5.1	3.1	0.020	0.5	1000
JK60-017	Figure1(2)	7.4	12.7	5.1	3.1	0.020	0.5	1000
JK60-020	Figure1(2)	7.4	12.7	5.1	3.1	0.020	0.5	1000
JK60-025	Figure1(2)	7.4	12.7	5.1	3.1	0.020	0.5	1000
JK60-030	Figure1(2)	7.4	13.0	5.1	3.1	0.020	0.5	1000
JK60-040	Figure1	7.8	13.5	5.1	3.1	0.020	0.5	1000
JK60-050	Figure1	7.8	13.5	5.1	3.1	0.020	0.5	1000
JK60-065	Figure1	9.7	14.5	5.1	3.1	0.020	0.5	1000
JK60-075	Figure1	10.4	15.2	5.1	3.1	0.020	0.5	1000
JK60-090	Figure1	11.7	15.8	5.1	3.1	0.020	0.5	1000
JK60-110	Figure2(3)	13.0	18.0	5.1	3.1	0.031	0.8	1000
JK60-135	Figure2	14.5	19.6	5.1	3.1	0.031	0.8	1000
JK60-160	Figure2	16.3	21.3	5.1	3.1	0.031	0.8	500
JK60-185	Figure2	17.8	22.9	5.1	3.1	0.031	0.8	500
JK60-200	Figure2	17.8	22.9	5.1	3.1	0.031	0.8	500
JK60-250	Figure2	21.3	26.4	10.5	3.1	0.031	0.8	500
JK60-300	Figure2	21.3	26.4	10.5	3.1	0.031	0.8	200
JK60-375	Figure2	28.5	33.5	10.5	3.1	0.031	0.8	200
JK60-500	Figure2	28.5	33.5	10.5	3.1	0.031	0.8	200

Radial Lead Resettable Polymer PTCs

JK130 Series

Description

JK130 Series is designed to protect against short duration high voltage fault currents (power cross or power induction surge) typically used in AC110V.

Features

- 0.05-3.5A hold current rating
- 135VAC operating voltage
- Fast time-to- trip
- RoHS compliant, Lead-Free and Halogen-Free

Applicable

- AC110V over-current protection
- Power ports
- Customer Premises Equipment(CPE)

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK130-010	0.1	0.20	130	10.0	0.8	0.5	6.0	2.50	9.0	20.0
JK130-015	0.15	0.30	130	10.0	0.8	0.75	5.5	2.50	7.5	18.0
JK130-017	0.17	0.34	130	100	0.8	0.85	5.2	1.50	7.0	16.0
JK130-020	0.20	0.40	130	10.0	0.8	1.00	5.0	1.90	4.0	12.0
JK130-025	0.25	0.50	130	10.0	1.0	1.25	4.8	1.45	3.5	10.0
JK130-030	0.30	0.60	130	10.0	1.0	1.50	4.5	1.00	3.0	5.0
JK130-040	0.40	0.80	130	10.0	1.0	2.00	4.5	0.75	2.0	4.0
JK130-050	0.50	1.00	130	10.0	1.0	2.50	5.0	0.50	1.60	3.5
JK130-065	0.65	1.30	130	10.0	1.0	3.25	5.2	0.45	1.00	2.0
JK130-075	0.75	1.50	130	10.0	1.0	3.75	5.5	0.40	0.90	2.0
JK130-090	0.90	1.80	130	10.0	1.5	4.50	5.8	0.30	0.70	1.5
JK130-110	1.10	2.20	130	10.0	1.5	5.5	6.3	0.20	0.65	1.20
JK130-135	1.35	2.70	130	10.0	1.8	6.75	7.5	0.15	0.60	1.1
JK130-160	1.60	3.20	130	10.0	1.8	8.00	8.0	0.10	0.50	1.00
JK130-185	1.85	3.70	130	10.0	2.0	9.25	9.0	0.10	0.40	0.80
JK130-200	2.00	4.0	130	10.0	2.0	10.00	10.0	0.10	0.30	0.50

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Dimensions

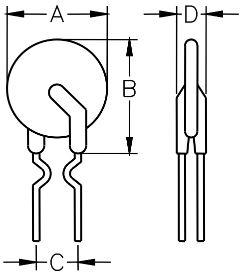


Figure1

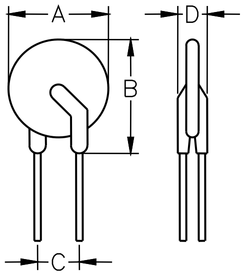


Figure2

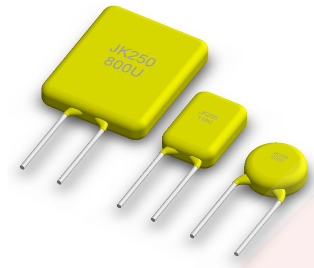
Part Number	Figure	A	B	C	D	Lead (dia)		Packaging (Bulk Pack)
		mm Max.	mm Max.	mm Typ.	mm Max.	Inches	mm	
JK130-010	Figure1	7.4	12.7	5.1	3.1	0.020	0.5	1000
JK130-015	Figure1	7.4	13.0	5.1	3.1	0.020	0.5	1000
JK130-017	Figure1	7.4	13.5	5.1	3.1	0.020	0.5	1000
JK130-020	Figure1	7.6	13.5	5.1	3.1	0.020	0.5	1000
JK130-025	Figure1	7.6	13.5	5.1	3.1	0.020	0.5	1000
JK130-030	Figure1	8.0	14.0	5.1	3.1	0.020	0.5	1000
JK130-040	Figure1	9.4	15.0	5.1	3.1	0.020	0.5	1000
JK130-050	Figure1	10.2	15.2	5.1	3.1	0.024	0.6	1000
JK130-065	Figure1	10.2	15.2	5.1	3.1	0.024	0.6	1000
JK130-075	Figure1	12.8	18.0	5.1	3.1	0.024	0.6	1000
JK130-090	Figure1	14.5	19.6	5.1	3.1	0.031	0.8	1000
JK130-110	Figure2	16.3	21.3	5.1	3.1	0.031	0.8	1000
JK130-135	Figure2	17.0	22.0	5.1	3.1	0.031	0.8	1000
JK130-160	Figure2	18.0	23.0	5.1	3.1	0.031	0.8	1000
JK130-185	Figure2	22.0	23.0	5.1	3.1	0.031	0.8	500
JK130-200	Figure2	22.0	27.0	10.2	3.1	0.031	0.8	500

Radial Lead Resettable Polymer PTCs

JK250 Series

Description

JK250 Series is designed to protect against short duration high voltage fault currents (power cross or power induction surge) typically used in AC220V.



Features

- 0.02-2.0A hold current rating
- 250VAC operating voltage
- Fast time-to- trip
- RoHS compliant, Lead-Free and Halogen-Free

Applicable

- AC220V over-current protection
- Power ports
- Customer Premises Equipment(CPE)
-

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK250-020U	0.020	0.045	250	3.0	1.0	1.0	0.10	80.0	160.0	240.0
JK250-030U	0.030	0.065	250	3.0	1.0	1.0	0.10	60.0	120.0	180.0
JK250-040U	0.040	0.080	250	3.0	1.0	0.5	1.00	30.0	60.0	80.0
JK250-060U	0.060	0.120	250	3.0	1.0	0.5	2.00	22.0	40.0	60.0
JK250-080U	0.080	0.160	250	3.0	1.0	1.0	0.25	14.0	22.0	33.0
JK250-090U	0.090	0.180	250	3.0	1.0	1.0	0.50	10.0	20.0	31.0
JK250-100U	0.100	0.200	250	3.0	1.0	1.0	1.00	10.0	20.0	31.0
JK250-110U	0.110	0.220	250	3.0	1.0	1.0	1.20	6.0	12.0	16.0
JK250-120U	0.120	0.240	250	3.0	1.0	1.0	1.20	6.0	11.0	16.0
JK250-145U	0.145	0.290	250	3.0	1.0	1.0	4.00	3.5	6.5	14.0
JK250-180T	0.180	0.540	250	10.0	1.8	3.0	1.50	1.0	2.2	4.0
JK250-180U	0.180	0.540	250	10.0	1.8	3.0	1.50	1.0	3.0	5.0
JK250-200U	0.200	0.400	250	10.0	2.4	3.0	5.00	3.0	6.0	9.0
JK250-400U	0.400	0.800	250	10.0	2.8	3.0	8.0	1.0	3.0	6.0
JK250-600U	0.600	1.200	250	10.0	3.2	3.0	12.0	0.6	2.00	5.0
JK250-800U	0.800	1.600	250	10.0	3.6	4.0	18.0	0.40	1.00	3.0
JK250-1000U	1.000	2.000	250	10.0	3.6	5.0	20.0	0.50	0.80	2.0
JK250-1200U	1.200	2.400	250	10.0	3.6	6.0	20.0	0.20	0.80	2.0
JK250-1500U	1.500	3.000	250	10.0	4.8	7.5	20.0	0.20	0.60	1.5
JK250-2000U	2.000	4.000	250	10.0	4.8	10.0	20.0	0.20	0.40	1.5

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Radial Lead Resettable Polymer PTCs

JK250 Series

Description

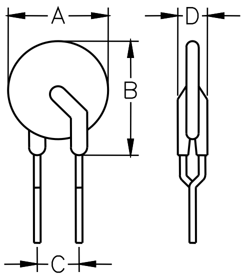


Figure1

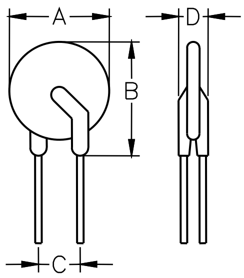


Figure2

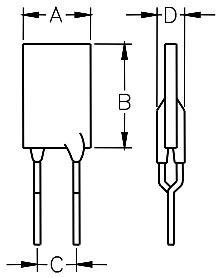


Figure3

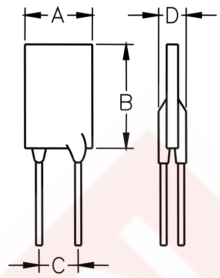
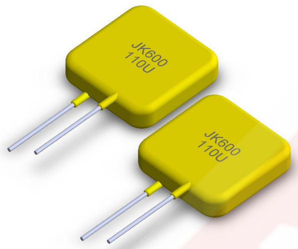


Figure4

Part Number	Figure	A	B	C	D	Lead (dia)		Packaging (Bulk Pack)
		mm Max.	mm Max.	mm Typ.	mm Max.	Inches	mm	
JK250-020U	Figure1(2)	7.4	12.7	5.1	3.8	0.020	0.5	1000
JK250-030U	Figure1(2)	7.4	12.7	5.1	3.8	0.020	0.5	1000
JK250-040U	Figure1(2)	7.4	12.7	5.1	3.8	0.020	0.5	1000
JK250-060U	Figure1(2)	7.4	12.7	5.1	3.8	0.024	0.6	1000
JK250-080U	Figure1	7.4	12.7	5.1	3.8	0.024	0.6	1000
JK250-090U	Figure1	7.4	12.7	5.1	3.8	0.024	0.6	1000
JK250-100U	Figure1	7.8	12.0	5.1	3.8	0.024	0.6	1000
JK250-110U	Figure3	7.0	12.6	5.1	3.8	0.024	0.6	1000
JK250-120U	Figure3	7.0	10.0	5.1	3.8	0.024	0.6	1000
JK250-145U	Figure3	7.0	10.0	5.1	3.8	0.024	0.6	1000
JK250-180T	Figure1	10.2	14.5	5.1	3.4	0.024	0.6	1000
JK250-180U	Figure3	11.2	14.5	5.1	3.8	0.024	0.6	1000
JK250-200U	Figure4	10.5	17.0	5.1	3.8	0.024	0.6	1000
JK250-400U	Figure4	10.5	17.0	5.1	3.8	0.031	0.8	1000
JK250-600U	Figure4	16.0	18.0	5.1	4.5	0.031	0.8	500
JK250-800U	Figure4	20.0	22.0	5.1	4.5	0.031	0.8	500
JK250-1000U	Figure4	20.0	22.0	5.1	4.5	0.031	0.8	200
JK250-1200U	Figure4	22.0	28.0	5.1	4.5	0.031	0.8	200
JK250-1500U	Figure4	25.0	30.0	5.1	4.5	0.031	0.8	200
JK250-2000U	Figure4	26.0	32.0	5.1	4.5	0.031	0.8	200

Radial Lead Resettable Polymer PTCs

JK600 Series



Dimensions

The JK600 Series is designed to protect against power fault events typically found in telecom applications. This series is designed to be used in applications that need to meet the requirements of GR-1089-CORE and UL60950 / EN60950 / IEC60950. These resettable devices also help to meet the requirements of ITU K.20, K.21 and K.44.

Features

- 0.11-0.20A hold current range
- 600VAC interrupt rating
- Fast time-to-trip
- Binned and shorted narrow resistance ranges available
- RoHS compliant, Lead-Free and Halogen-Free

Applicable

Secondary over-current protection for:

- Central Office Equipment (CO)
- Customer Premises Equipment (CPE)
- Alarm systems
- Set Top Boxes (STB)
- Voice over IP (VOIP)
- Subscriber Line Interface Circuit (SLIC)

Electrical Parameters

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Maximum Time To Trip		Resistance		
	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{dtyp.}$ (W)	Current (A)	Time (Sec.)	R_{min} (Ω)	R_{mAX} (Ω)	R_{1max} (Ω)
JK600-110	0.11	0.22	600	3	1.0	1.0	5.0	7.5	18	27
JK600-150	0.15	0.30	600	3	1.0	1.0	6.0	6.0	15	22
JK600-160	0.16	0.32	600	3	1.0	1.0	7.5	5.0	12	18
JK600-200	0.20	0.40	600	3	1.0	1.0	12.0	4.5	11	16

I_{hold}= Hold current: maximum current device will pass without tripping in 25°C still air.
I_{trip}= Trip current: minimum current at which the device will trip in 25°C still air.
V_{max}= Maximum voltage device can withstand without damage at rated current (I_{max})
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V_{max})
$P_{dtyp.}$= Power dissipated from device when in the tripped state at 25°C still air.
R_{min}= Minimum resistance of device in initial (un-soldered) state.
R_{max}= Maximum resistance of device in initial (un-soldered) state.
R_{1max}= Maximum resistance of device at 25°C measured one hour after tripping.
Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Dimensions

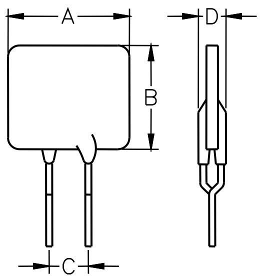


Figure1

Part Number	Figure	A		B		C		D		Lead (dia)		Packaging (Bulk Pack)
		Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	
JK600-110	Figure1	0.591	15.0	0.591	15.0	0.200	5.1	0.256	6.5	0.024	0.6	500
JK600-150	Figure1	0.591	15.0	0.591	15.0	0.200	5.1	0.256	6.5	0.024	0.6	500
JK600-160	Figure1	0.591	15.0	0.591	15.0	0.200	5.1	0.256	6.5	0.024	0.6	500
JK600-200	Figure1	0.591	15.0	0.591	15.0	0.200	5.1	0.256	6.5	0.024	0.6	500