

## Radial Lead Resettable Polymer PTCs

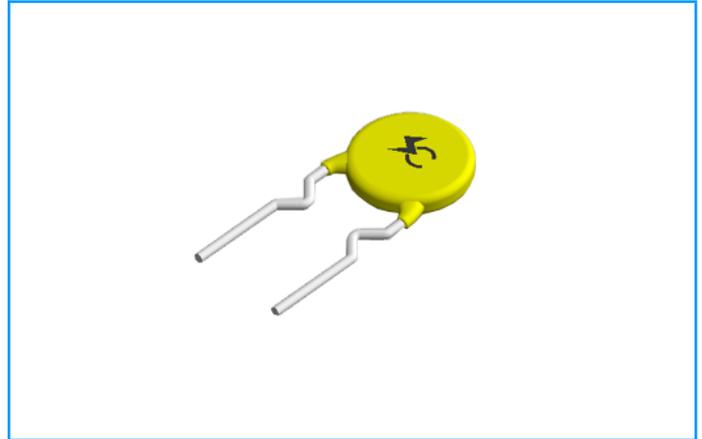
### SC135-500CW0B

#### Features

- u RoHS Compliant and Halogen-Free
- u Radial leaded Devices
- u Cured, flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- u Operation Current: 0.50A, Maximum Voltage: 130Vdc, Operating Temperature: -40°C to +85°C

#### Applications

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



#### Electrical Parameters

Part Number	I <sub>hold</sub> (A)	I <sub>trip</sub> (A)	V <sub>max</sub> (Vdc)	I <sub>max</sub> (A)	P <sub>dtyp</sub> (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (S)	R <sub>min</sub> (Ω)	R <sub>max</sub> (Ω)	R <sub>1max</sub> (Ω)
SC135-500CW0B	0.50	1.00	130	10	1.0	1.50	15.00	0.50	1.60	3.50

I<sub>hold</sub>= Hold current: maximum current at which the device will not trip at 25°C still air.

I<sub>trip</sub>= Trip current: minimum current at which the device will always trip at 25°C still air.

V<sub>max</sub>= Maximum voltage device can withstand without damage at rated current.

I<sub>max</sub>= Maximum fault current device can withstand without damage at rated voltage.

T<sub>trip</sub>=Maximum time to trip(s) at assigned current.

P<sub>dtyp</sub>= Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R<sub>min</sub>= Minimum device resistance at 25°C prior to tripping.

R<sub>max</sub>= Maximum device resistance at 25°C prior to tripping.

R<sub>1max</sub>= 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.

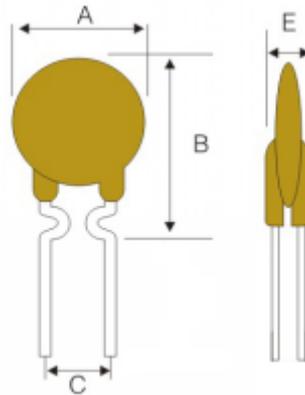
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#### Test Conditions and Standards

Test Item	Test Condition	Standard
Initial Resistance	In still air @ $25 \pm 2^\circ\text{C}$	$0.50 \sim 3.50\Omega$
Hold Current	$25 \pm 2^\circ\text{C}$ , 0.50A, 60min	No trip
Time to Trip	$25 \pm 2^\circ\text{C}$ , 1.50A	$\leq 15\text{s}$
Trip Endurance	130V, 10A, 15min	No arcing or burning

#### Dimensions



Part Number	Dimensions (mm)				Lead Material
	A (Max)	B (Max)	C (Typ)	E (Max)	Tinned Metal (mm)
SC135-500CW0B	10.2	15.2	5.1	3.8	$\Phi 0.60$

#### Packaging Quantity

Part Number	Quantity (pcs/bag)
SC135-500CW0B	1000