

B HF Rohs

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Radial Lead Resettable Polymer PTCs

SC16-075CW0D

Features

- RoHS Compliant and Halogen-Free
- Radial leaded Devices
- Cured,flame retardant epoxy polymer insulating material meets UL94V-0 requirements
- Operation Current: 0.75A, Maximum Voltage: 16Vdc, Operating Temperature: -40℃ to +85℃

Applications

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

Electrical Parameters

Part Number		I _{trip} (A)	V _{max} (Vdc)	l _{max} (A)	P _{dtyp} (W)	Maximum Time To Trip		Resistance		
	I _{hold} (A)					Current (A)	Time (S)	R _{min} (Ω)	R _{max} (Ω)	R1 _{max} (Ω)
SC16-075CW0D	0.75	1.50	16	40	0.30	3.75	4.8	0.11	0.17	0.28

I $_{\text{hold}}\text{=}$ Hold current: maximum current at which the device will not trip at 25 $^\circ\!\!\mathbb{C}$ still air.

I $_{trip}\text{=}$ Trip current: minimum current at which the device will always at 25 $^\circ\!\!\!\!\mathrm{C}$ still air.

 $V_{\mbox{\scriptsize max}}\mbox{=}$ Maximum voltage device can withstand without damage at rated current.

I $_{\mbox{\scriptsize max}}$ = Maximum fault current device can withstand without damage at rated voltage.

T trip=Maximum time to trip(s) at assigned current.

P_{dtyp} = Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R $_{\text{min}}\text{=}$ Minimum device resistance at 25 $^\circ\!\!\!\mathrm{C}$ $\,$ prior to tripping.

R $_{\text{max}}$ = Maximum device resistance at 25 $^\circ\!\mathrm{C}$ prior to tripping.

R1_{max}= 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.

Temperature Rerating Chart - I hold (A)

Ambient Operation Temperature	-40° ℃	-20° ℃	0° C	23 ℃	30 ℃	40 ℃	50 ℃	60° C	70 ℃	85℃
Percentage Reduction	145%	130%	120%	100%	95%	88%	80%	71%	66%	56%

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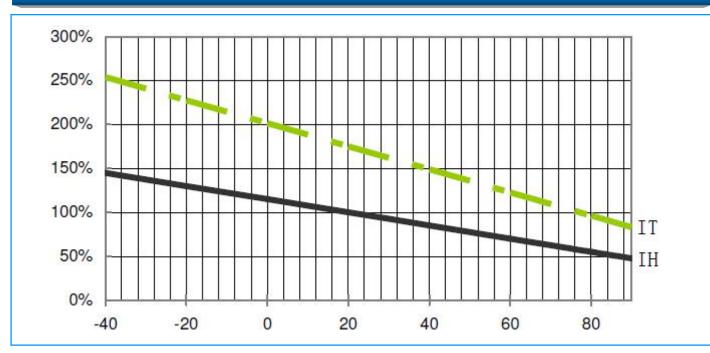


B HF RoHS

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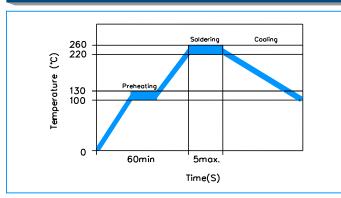
Temperature Derating Curve



Test Procedures and Requirement

Test	Test Conditions	Accept/Reject Criteria			
Resistance	In still air @25±2°C	$R_{min} \leqslant R \leqslant R_{max}$			
Hold Current	60 min, at I _{hold} , In still air @25±2°C	No trip			
Time to Trip	Specified current, V _{max} , @25±2°C	T≤Maximum Time To Trip			
Trip Cycle Life	V _{max} , I _{max} ,100 cycles	No arcing or burning			
Trip Endurance	Vmax,24hours	No arcing or burning			

Soldering Parameters



Pre-Heating Zone	Refer to the condition recommended by the manufacturer. Max. ramping rate should not exceed 4°C/Sec			
Soldering Zone	Max. solder temperature should not exceed 260°C			
Cooling Zone	Cooling by natural convection in air			

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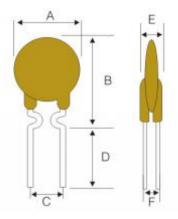
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Physical Specifications					
Lead Material	0.03-1.85A Tin-plated Copper clad steel 2.50-5.00A Tin-plated Copper				
Soldering Characteristics	Solder ability per MIL-STD-202, Method 208E				
Insulating Material	Cured, flame retardant epoxy polymer meets UL 94V-0 requirements.				
Device Labeling	Marked with 'SC', voltage, current rating				

Dimensions



Port Number		Lead Material					
Part Number	A (Max)	B (Max)	С (Тур)	D (Min)	E (Max)	F (Typ)	Tinned Metal (mm)
SC16-075CW0D	6.9	11.5	5.1	7.6	3.0	0.8	Φ0.50

Packaging Quantity						
Part Number	Quantity (pcs/reel)					
SC16-075CW0D	1000					