Polymer **PTC Devices**

Wayon Electronics Co., Ltd.

No.1001, Shiwan 7th Road, Pudong, Shanghai 201202, P.R. China Tel: 86-21-50968308 Fax: 86-21-50968310 Surface mount fuses E-mail: market@way-on.com Http://www.way-on.com

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LP-ISML450

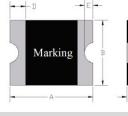




- Small size of 0805
- Low risistance
- Lead-free and compliant with the European Union RoHS Directive 2011/65/EU
- Fast time-to-trip
- Agency Recognition: UL 、TUV







Product Dimensions (mm)

Dort number -	А	В	С	D	E
Part number -	Max.	Max.	Max.	Min.	Min.
LP-ISML450	2.50	1.60	1.00	0.20	0.05
LP-ISML450	2.50	1.60	1.00	0.20	0.0

Electrical Characteristics

Dont number	Ін	Ιт	V _{max}	I _{max}	T _{trip}		Pd _{typ}	R _{min}	R _{1max}
Part number	(A)	(A)	(V)	(A)	Current(A)	Time(S)	(W)	(Ω)	(Ω)
LP-ISML450	4.50	9.00	6	50	8.0	5.0	1.2	0.002	0.012

I_H=Hold current: maximum current at which the device will not trip at 25 $^{\circ}$ C still air.

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

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

I_{max}=Maximum fault current device can withstand without damage at rated voltage.

T_{trip}=Maximum time to trip(s) at assigned current.

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

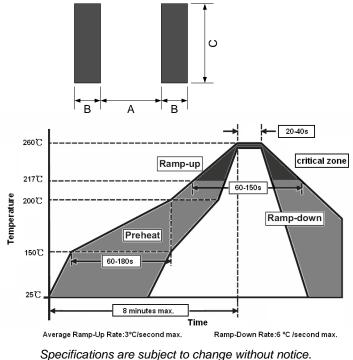
R_{min}=Minimum device resistance at 25 °C prior to tripping.

R_{1max}=Maximum device resistance measured in the nontripped state 1 hour post reflow.

Thermal Derating

LP-ISML450	Maximum ambient operating temperature($^{\circ}$ C)									
	-40	-20	0	20	25	40	50	60	70	85
Hold Current (A)	7.20	5.60	4.88	4.70	4.50	3.56	3.30	2.90	2.45	1.76
Trip Current (A)	14.40	11.20	9.76	9.40	9.00	7.12	6.60	5.80	4.90	3.52

Solder Reflow Recommendations



Solder Pad Layouts С Α в Part number (mm) (mm) (mm) LP-ISML450 1.20 1.00 1.50

Recommended reflow methods: IR, Vapor phase, hot air oven.

* Devices can be cleaned using standard industry methods and solvents.

Notes:

- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.
- Devices are not designed to be wave soldered to the bottom side of the board.

Package Information

Tape & Reel: 3000pcs per reel.

Effectivity: Reference documents shall be the issue in effect on the date of invitation for bid.

Caution: Operation beyond the rated voltage or current may result in rupture electrical arcing or flame.

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LP-	ISML450	Surface mount fuses	E-mail: <u>market@way-on.com</u>	Http://www.way-on.com					
		S	MD PTC 使用注意事	项					
	Cautions for SMD PTC Use								
1.	请在规格书规定 阻值升高,甚至	的最大电压和最大电流下使用		大电流规格值的操作,可能会导致 PTC 出现电弧,					
2.	Operation beyo 规格书所规定的	nd the maximum voltage or o 各温度下的 Hold current 均是	是 PTC 经过一次回流焊接得出	damage and possible electrical arcing or flame. 出的常规性能,PTC 能够在不同温度对应的电流条					
	Hold current at		the SPEC is the convention	al performance of PTC obtained by one time					
3.	long-term charg 规格书所规定的	jing or discharging current fo 电阻以及电气特性,均是基于	r this type of PTC. 一在维安指定测试板经过一次	temperature. This current is not the condition of 回流焊之后的测试。如果客户有二次回流焊或者注					
	The above para		one time of reflow soldering	processing the PTC. If there is any further heat					
	generated proce	ess like injection or dispensir	ng at the customer's premise	e, the aforementioned parameters will decrease					
4		e. Therefore the verification							
4.				元件,尽量减少外部热源的影响。 ny heat source devices around it to reduce the					
	outside heat so		commended not to design an	Ty field source devices around it to reduce the					
5.			1. 焊接工艺为同流焊 焊接	工艺可参考维安推荐的回流焊曲线。如果回流焊温					
5.				上对线路板其他元件或端子返工时使用热风枪。					
				g. Please refer to the Wayon recommended					
				ommended value, the PTC might be damaged.					
				ne circuit board components or terminals rework .					
6.				粘剂、硅胶,需要对注塑料胶料等材料牌号以及应					
				不会影响 PTC 性能之后方可使用。					
				nesives, UV glue, silica gel and cleaning agents					
				erature, time, and etc to ensure the consistency					
		oduct and the processing bef							
7.	PTC 贴装或使用]过程中,不建议使用洗板水	或其他清洗剂进行清洗。如必	必须使用,需要验证各类清洗剂、洗板水以及溶剂					
				化学药品包括但不仅限于醚类、苯类、酮类以及脂					
	类等较强溶解性	、破坏性的有机化合物。清澈	先后将产品放置于敞开的环境	中至少24小时,将残留的溶剂进行充分的挥发。					
				d washer water or other cleaning agent. If					
				leaning agents, washboard water and solvents,					
				hemicals that impacts PTC include but not limited					
				ong solubleness and ruinous. Please place the					
0		environment for at least 24 免用暴力砸、挤、压、拉、打							
8.									
	performance de		hist by tool during assembling	g process otherwise it might be a cause of the					
9.			注朔武打防 须左尺悬短的时	时间内完成,如贴装与注塑打胶时间间隔超过1个					
5.		存,可避免PTC长时间暴露		1时的儿戚,如如表马往至11放时时时隔超过11					
				uing is needed, it should be completed in as short					
	a time as possib	ble. If the time slot between r	mounting and injection or glu	ing surpasses 1 month, please keep in airtight					
		avoid long air exposure.	fied high and higher of gra	ing carpaceee i menaily, prease keep in anagin					
10.		R护元件,但并不能当做开关:	使用,重复多次的保护会降低	氏 PTC 的维持电流。					
	PTC is resettab	le protection device which sh	nall not be taken for use as s	witch. Multiple times tripping shall lower the PTC					
	hold current.								
11.	PTC 在充电线端	品应用中,建议使用 PP 类材料	料做内膜,禁止使用 TPE 类	与 PVC 类等材料做内膜。					
			terial is recommended to us	e as inner membrane and TPE and PVC type					
	material is inhib								
12.			义焊接位置距离 PTC 1.5mm	以上,焊接工具温度低于350℃,焊接铁头与焊点					
	的接触时间不超								
				ess, it is suggested that the welding position shou					
				nould be lower than 350°C, and the contact time b					
		g iron and solder joint should							
13.				1有包装破损的,立即将产品隔离处理;使用时如					
		之前包装状态,做密封保存。							
				packaging. If customers find damaged					
			nounce inimediately; if there	is surplus material, they need to restore the					
1/		ls,and do sealed storage. 按照一般电子废弃物处理,具	目休 佰 材料组 成可 会 ロ Μορο						
14.				onic waste, and raw material compositions of					
		eferred to MSDS.	se realed as general electric						
c		e subject to change without n	notice	Page 2 of 2					
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