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EVERFUSE®
Polymeric PTC Resistor

Device Specification (Preliminary)

RoHS Halogen Free

ELECTRICAL CHARACTERISTICS

Part Number	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{d\ typ}$ (W)	Maximum Time To Trip		Resistance	
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD1210P500SLR	5.0	10.0	16	50	1.20	25.0	2.0	0.001	0.012

Note: 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})

$P_{d\ typ}$ = Typical 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 or reflow soldering of 260°C for 20 sec.

***Value specified were determined using the PWB with 0.090"*1.5oz copper traces.**

***Customer should verify the device performance in their specified conditions.**

Caution: Operation beyond the specified rating may result in damage and possible arcing and flame.

Recognitions: Pending

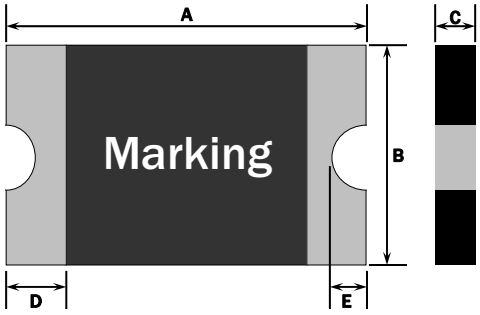
Marking

Polytronics / Polystar Logo

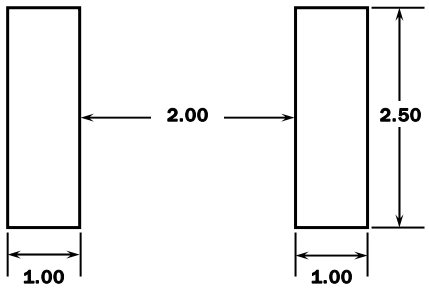
P_{LK}

Part Identification

Figure



Recommended Pad Layout (mm)



Note: Polystar is Polytronics's manufacturing site in China. The Polystar ID marking shall appear on smallest package.

PHYSICAL DIMENSIONS (mm)

Part Number	A		B		C		D		E	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
SMD1210P500SLR	3.00	3.43	2.35	2.80	0.60	1.20	0.25	0.75	0.10	0.50

◎Specifications are subject to change without notice.

THERMAL DERATING CHART – I_{hold}/I_{trip} (Amps)

Recommended Data

Part Number		Ambient Operation Temperature								
		-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
SMD1210P500SLR	I_{hold}	7.05	6.30	5.70	5.00	4.25	3.80	3.30	2.80	2.10
	I_{trip}	14.10	12.60	11.40	10.00	8.50	7.60	6.60	5.60	4.20