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EVERFUSE™
Polymeric PTC Resistor

Device Specification (Preliminary)

RoHS 2002/95/EC

ELECTRICAL CHARACTERISTICS

Part Number	I_{hold} (A)	I_{trip} (A)	V_{max} (Vdc)	I_{max} (A)	$P_{d\ max.}$ (W)	Maximum Time To Trip		Resistance	
						Current (A)	Time (Sec.)	R_{min} (Ω)	R_{1max} (Ω)
SMD1210P175TF-C	1.75	3.50	6	100	0.8	8.00	0.60	0.020	0.080

Note: I_{hold} = Hold current: maximum current device will pass without tripping in 23℃ still air.

I_{trip} = Trip current: minimum current at which the device will trip in 23℃ 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})

Pd = Power dissipated from device when in the tripped state at 23℃ still air.

R min= Minimum resistance of device in initial (un-soldered) state.

R 1max= Maximum resistance of device at 23℃ measured one hour after tripping or reflow soldering of 260℃ for 20 sec.

*Value specified were determined using the PWB with 0.030”*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:

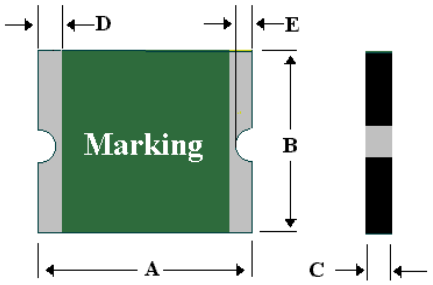
Marking:

Polytronics/ Polystar Logo

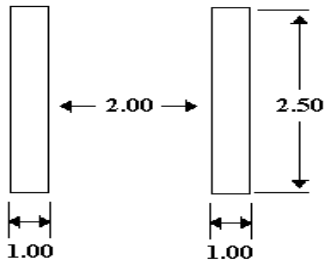
P_{17}

Part Identification

FIGURE



SOLDER PAD LAYOUTS



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.
SMD1210P175TF-C	3.00	3.43	2.35	2.80	0.50	0.75	0.25	0.75	0.20	0.50

◎ Specifications are subject to change without notice.

THERMAL DERATING CHART – Ihold/Itrip(Amps)

RECOMMENDED DATA

Model		Ambient Operation Temperature								
		-40℃	-20℃	0℃	23℃	40℃	50℃	60℃	70℃	85℃
SMD1210P175TF-C	Ihold	2.45	2.22	2.01	1.75	1.45	1.26	1.10	0.98	0.80
	Itrip	4.90	4.40	4.00	3.50	2.90	2.50	2.20	1.95	1.60