



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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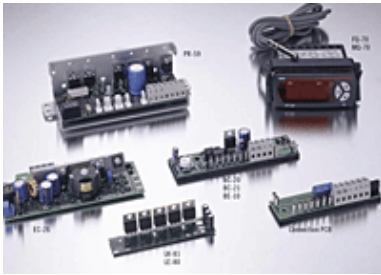
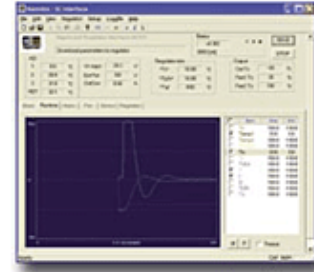


**Laird Technologies**Web site: [www.LairdTech.com](http://www.LairdTech.com)

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**Item # LK-81, Cool/Heat Controller****Cool/Heat Controller****Cool/Heat controllers - for outdoor cabinets:**

This fully integrated controller is designed for cooling and heating outdoor electronic cabinets where accuracy is not crucial, but reliability, simplicity and low cost are. The controller automatically keeps your electronics warm in wintertime and cool in the summer. Can handle currents up to 20 A. A signal output indicates if the TE modules are active or not. Available for heating below 5°C and cooling above 35°C (LE-80), or heating below 10°C and cooling above 25°C (LK-81). LK-81 includes low voltage protection and is designed for temperature control of batteries and electronics. These controllers can be integrated with the biggest AA-assemblies (AA-100 to AA-200)

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Snapshot of graphical user interface showing run time graph of temperatures and PID parameters for PR-80.

[larger image](#)**Specifications**

<b>Regulation Type</b>	Serial Transistor
<b>I<sub>max</sub></b>	10 A 20 A
<b>Voltage</b>	24 V 48 V
<b>Settings</b>	Cool >25 °C Heat <10 °C
<b>Accuracy</b>	±2.0 °C
<b>Hysteresis</b>	3.0 °C
<b>Low Voltage Protection</b>	Yes

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