

Clear Strip Heaters

The CrSH Series clear strip heater features a micro-thin wire heating element laid in a pattern between optical grade polyester sheets. These heaters provide reliable heat without blocking light. These are excellent for overlaying over liquid crystal displays, providing proper operation down to -67°F (-55°C). LCD's contain a liquid that is housed between two layers of glass. These liquids begin to freeze as the temperature drops. As the liquid in the display freezes, the response time slows down, and the LCD will eventually fade out. This heater will keep the LCD at a temperature in which it will continue to display and react quickly.

Features

- **Transparent appearance and low profile, perfect for LCD displays.**
- **Tight resistance tolerance provides constant and repeatable wattage output for longer battery life**
- **High watt density offers faster warm up time needed for quick LCD response and visibility in cold weather operation**
- **Rugged materials of construction prevent costly damage during installation and handling**

Typical Applications

- Cockpit displays
- Defogging windows in environmental chambers
- Portable military radios
- Handheld terminals
- Outdoor card readers
- Portable and vehicular computers
- Camera lens deicing
- Heating microscope stages
- Ruggedized computers
- Digital panel meters in enclosures

Specifications

Temperature range	-55 to 120°C (-67 to 248°F)
Insulation	Optical grade polyester
Transparency	82% minimum light transmission over the visible spectrum
Heating element	Resistive wire, diameter $0.00008''$ to $0.002''$ (0.02 to 0.05 mm)
Resistive tolerance	$\pm 10\%$ or $\pm 0.5 \Omega$, whichever is greater
Lead wire material	PFA insulated
Lead wire connections	Welded and anchored between heater layers for strength

