

Single Sided Heaters

Features:

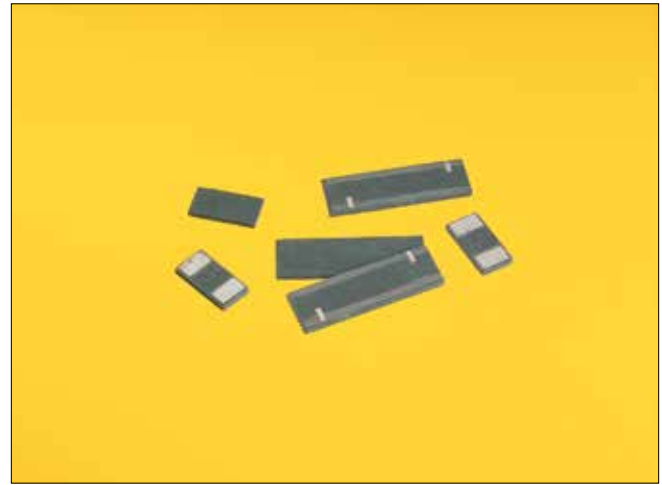
- Self-regulating design - no thermostat needed
- Low cost
- Efficient energy transfer
- No moving parts to wear
- Virtually unlimited life
- Mounted easily to most substrates

Options:

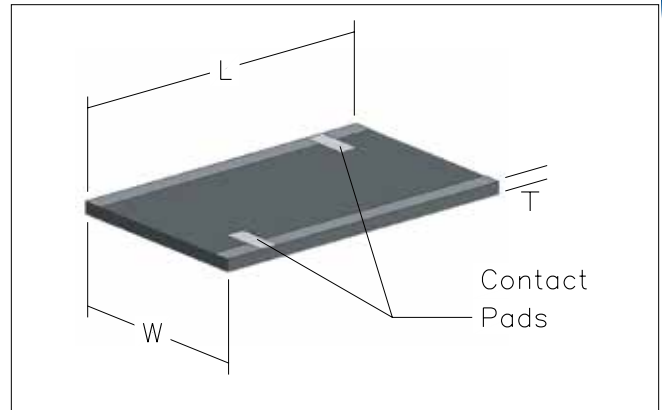
- Other resistance values and tolerances
- Switch temperatures from 50°C to 135°C
- Other rectangular sizes
- Other voltage ranges

Description:

MS has developed a revolutionary design in PTC heater technology that vastly simplifies the connection between the PTC element and the medium to be heated. Most heating elements, including PTCs, are live electrically on both sides of the element. This makes the fabrication of the assembly more difficult and, without special precaution, permits potentially hazardous voltages to be a danger to the end user. With the single sided heater design, the bottom side of the thermistor element is electrically isolated from the top side. However, the transfer of heat is not affected by this design. PTC elements can be soldered, epoxied or spring mounted to its interface. As with other PTC heaters, the single sided PTC is self-regulating when operated above its switch temperature. Please contact the factory for specific design or application information or the availability of options.



Single Sided Self Regulating Heaters



PTC Thermistors

Ordering Information

| MS Part Number | R ₂₅ (Ω) | T _s (°C) | L | | W | | T | | V _{MAX} (volts) |
|----------------|---------------------|---------------------|----------|------|----------|------|----------|------|--------------------------|
| | | | (inches) | (mm) | (inches) | (mm) | (inches) | (mm) | |
| PS425C050S102H | 100 | 50 | 0.472 | 12.0 | 0.236 | 6.0 | 0.050 | 1.3 | 50 |
| PS425C090S102H | 100 | 90 | 0.472 | 12.0 | 0.236 | 6.0 | 0.050 | 1.3 | 50 |
| PS425C120S102H | 100 | 120 | 0.472 | 12.0 | 0.236 | 6.0 | 0.050 | 1.3 | 50 |
| PS936D050S501H | 50 | 50 | 0.925 | 23.5 | 0.236 | 6.0 | 0.060 | 1.5 | 120 |
| PS936D090S501H | 50 | 90 | 0.925 | 23.5 | 0.236 | 6.0 | 0.060 | 1.5 | 120 |
| PS936D120S501H | 50 | 120 | 0.925 | 23.5 | 0.236 | 6.0 | 0.060 | 1.5 | 120 |