

Flexible Heaters

Silicone Rubber Heaters

Rugged, yet thin, lightweight and flexible — use of Watlow® silicone rubber heaters is limited only by the imagination. Heat can be put exactly where it is needed to improve heat transfer, speed warm ups and decrease wattage requirements in an application process.

Fiberglass-reinforced silicone rubber provides dimensional stability without sacrificing flexibility. Because very little material separates the element from the part, heat transfer is rapid and efficient. Heaters are constructed with a wire-wound element or with an etched foil element. Its thin construction allows it to fit into applications where space is limited.

Performance Capabilities

- Operating temperatures up to 500°F (260°C)
- Watt densities up to 80 W/in² (12.5 W/cm²), dependent upon application temperature
- Wire-wound element thickness — 0.055 in. (1.4 mm)
- Etched foil element — 0.022 in. (0.56 mm)
- UR®, cUR®, VDE and CE recognitions are available on many designs up to 428°F (220°C)

Features and Benefits

Designed to the exact shape and size needed

- Conforms to component and/or equipment

More than 80 designs available immediately from stock

- Reduces downtime

Constructed with wire-wound or etched foil elements

- Enables a thin, lightweight heater
- Provides the desired flexibility for many dynamic applications
- Delivers low mass and easily repeatable distributed watt densities

Moisture and chemical-resistant silicone rubber material

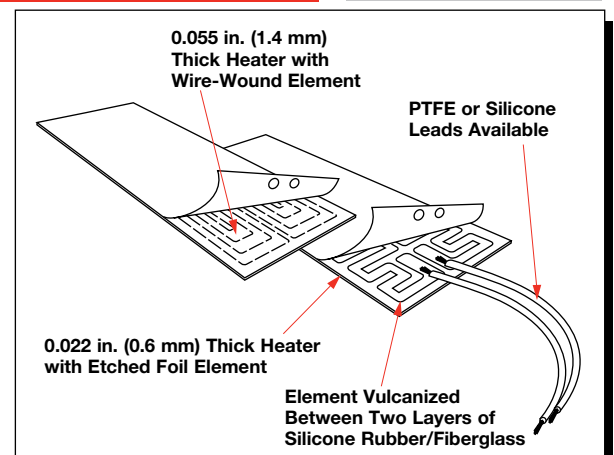
- Provides longer heater life

Vulcanizing adhesives or fasteners

- Allows heaters to be easily bonded to parts

Typical Applications

- Semiconductor processing equipment
- Freeze protection and condensation prevention for many types of instrumentation and equipment
- Medical equipment such as blood analyzers and test tube heaters
- Computer peripherals such as laser printers
- Curing of plastic laminates
- Photo processing equipment



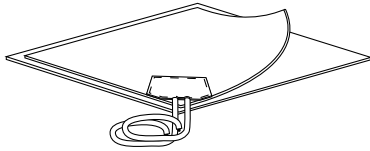
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Mounting Methods

Watlow offers various attachment techniques designed for fast installation.

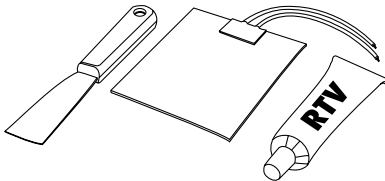
Pressure Sensitive Adhesive Surface (PSAS)



For speed, convenience and economy of installation, specify PSAS. Simply peel off the protective backing and roll the heater in place for an even bond to a clean, smooth surface. PSAS is not recommended for curved surfaces or for heaters rated above 10 W/in² (1.5 W/cm²). It should not be used for applications exceeding 400°F (205°C) on silicone rubber and 300°F (150°C) on polyimide.

Note: PSAS has a maximum six-month storage life at or below 86°F (30°C) before heater installation.

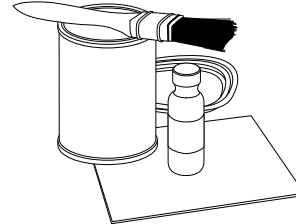
Field Applied Adhesive



For a stronger bond or when long storage is probable, room temperature vulcanizing (RTV) silicone adhesive works well. Watlow offers red RTV for temperatures up to 500°F (260°C). White RTV is available from adhesive suppliers for temperatures up to 400°F (205°C). Watlow's one-part RTV is self-priming and can be ordered in either 3 oz (90 ml) or 12 oz (355 ml) tubes. For larger heaters requiring longer adhesive working time, two-part RTV kits can be purchased from adhesive suppliers. These kits require primer on the surface prior to adhesive application.

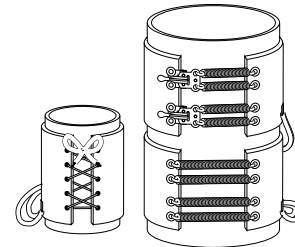
Note: Not recommended for polyimide heaters.

Silicone Contact Cement Kit



This two-part adhesive consists of a resin and catalyst that are easily mixed together and applied with a paintbrush. Recommended usage is for field cementing of silicone rubber heaters to customer parts. Available for immediate delivery, the cement kit handles temperatures up to 350°F (175°C). The resin is available in pint or quart containers. To order, specify **silicone contact cement** and the container size.

Mechanical Fasteners



When a wire-wound flexible heater must be detachable, any type of fastener normally used with fabrics can usually be built into the flexible heater's sheath material. The most common types are latch fasteners, boot hooks and grommets. Other styles include snap fasteners, springs and lacing cord. (Hook and loop style fastener strips are only available as part of the extended capabilities offering.) Grommets and boot hooks are commonly used with tension springs to compensate for slight variations in part size.

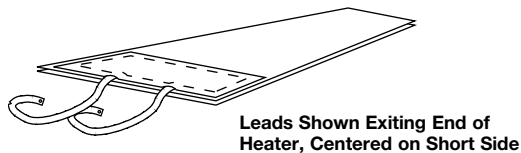
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Termination Styles

Watlow offers many types of leads and terminations. Leads can project from any position along the perimeter of the unit. **They are centered on the short side width of rectangular heaters unless specified.**

PTFE UL® 1180 CSA



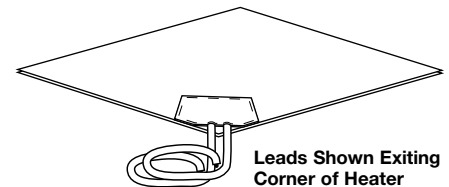
Watlow's leads are 12 in. (305 mm) long, white, PTFE insulated, flexible, plated copper UL® 1180 CSA wire. Leads are rated for 392°F (200°C)/300V. Lead connections on or at the heater are insulated with a cap of sheath material vulcanized to the heater body.

PTFE Leads



PTFE Type E (MIL-W-16878) and PTFE UL® 1199 leads rated for 392°F (200°C)/600V are also available.

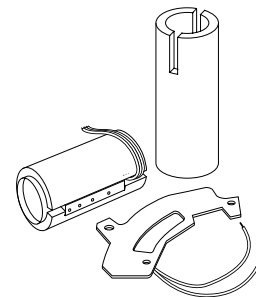
Silicone Insulated Leads



For a better moisture seal, specify UL® silicone insulated lead wires. This lead type is rated for 302°F (150°C)/600V. Any lead length is available. **Note:** Silicone rubber heaters are not designed to be waterproof. Excess exposure to moisture may facilitate premature heater failure.

Option

Thermal Insulation



To increase heating efficiency of your application, silicone rubber heaters can be thermally insulated with silicone sponge rubber bonded to one side in the following thicknesses: 1/16, 1/8, 1/4, 3/8 or 1/2 in. (1.6, 3.2, 6, 9.5 or 13 mm).

An aluminized surface can be added to the back side of the heater to reduce radiated heat losses. This aluminized surface, called "low loss treatment," adds very little to the unit thickness or mass and maintains a very clean appearance.

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Applications and Technical Data

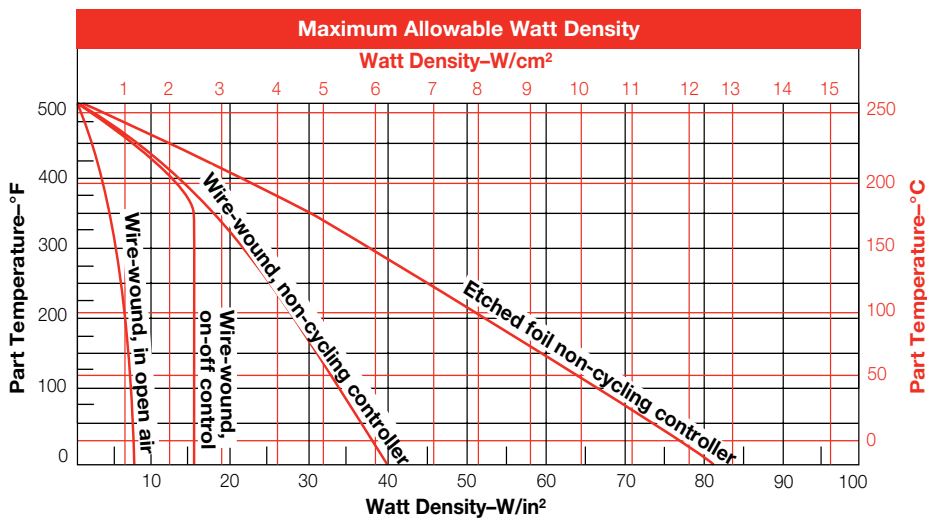
Determining Watt Density

The *Maximum Allowable Watt Density* graph illustrates the maximum recommended heater watt density at various metal parts or ambient air temperatures. However, it does not indicate the watt density necessary to achieve a given part temperature. See the *Surface Temperature vs. Time* graph on the next page for assistance with these calculations. When using this graph, consider:

- Part temperature is measured at the point where the heater contacts the metal part.
- Thermostats and on-off controllers are typically bimetal or capillary bulb.
- Non-cycling controllers are typically solid state, time-proportioning or silicone controlled rectifier (SCR) temperature controllers.

- Watt density values should be de-rated by one third if insulation is used.
- UL® recognition temperature limits are not detailed.
- Contact your Watlow representative prior to selecting high watt density etched-foil elements, or operating heaters with back side insulation or non-metallic parts which are poor thermal conductors.

Example: A wire-wound heater with a non-cycling controller at a part temperature of 250°F (120°C) can be rated at 24 W/in² (3.7 W/cm²) maximum. An etched foil heater operating under the same conditions can be rated at 45 W/in² (7 W/cm²) maximum.



Silicone Rubber Specifications

Max. width x max. length

- Wire wound: 36 x 120 in. (914 mm x 3048 mm)
- Etched foil: 18 x 34 in. (457 mm x 863 mm)

Thickness

- Wire wound: 0.055 in. (1.4 mm)
- Etched foil: 0.022 in. (0.6 mm)

Weight

- Wire wound: 8 oz/ft² (0.24 g/cm²)
- Etched foil: 3 oz/ft² (0.09 g/cm²)

Max. operating temperature: 500°F (260°C)

Max. temperature for UL® recognition: 428°F (220°C)

Min. ambient temperature: -80°F (-62°C)

Max. voltage: 600V

Max. wattage: see watt density graph

Lead size: sized to load

Lead length: 12 +1/2 -1/2 in. (305 mm +38 mm -13 mm)

Wattage tolerance

- Wire: ±5%
- Foil: +5% -10%

Dimensional tolerances

- 0 to 6 in. (0 to 152 mm): ±1/16 in. (1.59 mm)
- 6 to 18 in. (152 to 457 mm): ±1/8 in. (3.18 mm)
- 18 to 36 in. (457 mm to 914 mm): ±3/16 in. (4.76 mm)
- Over 36 in. (914 mm): ±1%

Flexible Heaters

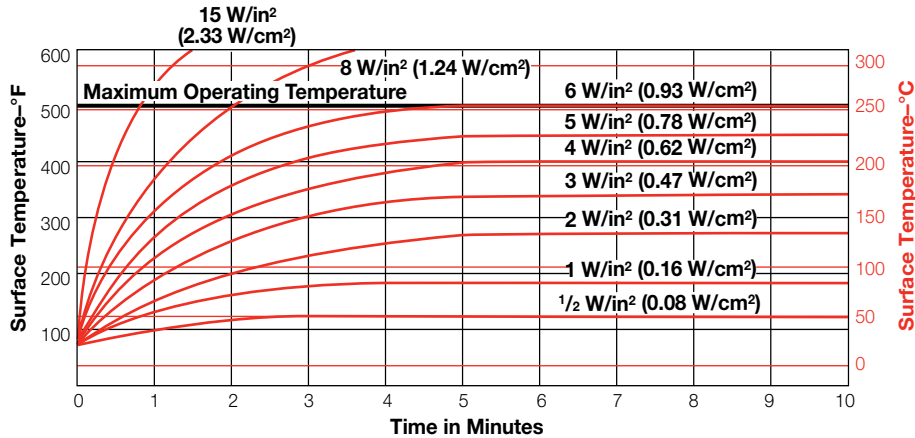
Silicone Rubber Heaters

Applications and Technical Data (Continued)

Surface Temperature vs. Time

This graph illustrates the surface temperature a silicone rubber heater will reach when uninsulated and suspended vertically in 70°F (20°C) still air.

Data is based on 0.055 in. (1.4 mm) thick construction and is offered as a reference tool.



UR®, cUR®, VDE and CE Recognition for Silicone Rubber Heaters

Watlow frequently works with customers requiring agency approvals such as UR®, cUR®, VDE and CE. Many silicone rubber heaters are available with one or more certifications.



UL® Component Recognition (UR®) of factory-bonded heaters is available up to 392°F (200°C) and for customer installed heaters up to 428°F (220°C) (UL® File No. E52951).

For Canadian recognition, Watlow offers **cUR® Recognized** silicone rubber heaters under UL® File #E52951. Several constructions are available with ratings to 600V and 428°F (220°C) maximum surface temperature. Contact your Watlow representative for further information.

VDE Approval is available on several constructions of both wire-wound (File No. 62533) and etched foil (File No. 62535) silicone rubber heaters. Maximum ratings are 440V and 428°F (220°C) surface temperature. Under VDE guidelines, minimum installed bend radius is 1/8 in. (3.2 mm) for etched foil and 1/4 in. (6 mm) for wire wound. VDE states that the user is responsible for the safe application, installation and wiring of heaters. Maximum working temperature must be maintained by an appropriate temperature controller.

The **CE mark** is available on UR® and/or VDE recognized heaters.

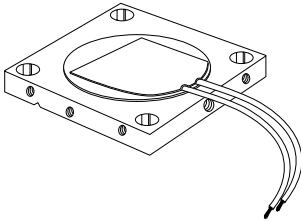
Options

Watlow offers options including attachment techniques, thermostats, special leads, holes and cutouts and three-dimensional shapes as described in the introduction to flexible heaters section.

Extended Capabilities For Silicone Rubber Heaters

Mounting Methods

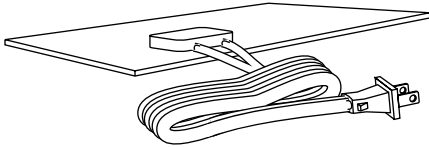
Factory Bonding



This attachment technique provides a strong, void-free bond for excellent heat transfer and extended heater life that has proven to be successful. Bonding is recommended for applications that reach maximum temperatures of 500°F (260°C) on silicone rubber and 300°F (150°C) on polyimide.

Termination Styles

HPN Cord and Plug Set

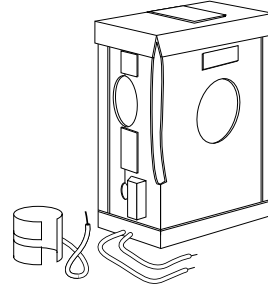


**Molded Leads are Shown Exiting Edge of Heater;
Capped Leads are also Available.**

For removable heaters, a 6 ft (1.8 m) HPN cord and plug set provides convenience. It is rated for 194°F (90°C)/300V. An HPN cord without a plug is also available in any length.

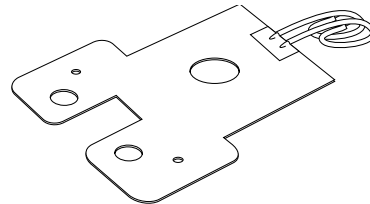
Construction

Formed Heaters



Many three-dimensional shapes, such as cylinders, cones and boxes, can be factory formed. Semi-rigid shapes can self-grip to the part. Special tooling may be required for some designs.

Holes, Cutouts and Notches



Watlow provides flexible heaters with special holes, cutouts and notches in nearly any position required for your design. The resistance element can be brought to within 1/8 in. (3.2 mm) of all edges. Standard spacing is 1/4 in. (6 mm) from all edges.

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Wire-Wound Elements – RAPID SHIP Offering

Width		Length		Watts	120VAC	120/240VAC
in.	(mm)	in.	(mm)		Part Number	Part Number
1	(25)	2	(51)	10	010020C1*	
		3	(76)	15	010030C1*	
		4	(102)	20	010040C1*	
		5	(127)	25	010050C1*	
		5	(127)	6.25/25		010050C2*
		10	(254)	50	010100C1	
		10	(254)	12.50/50		010100C2*
		15	(381)	75	010150C1	
		15	(381)	18.75/75		010150C2
		20	(508)	100	010200C1	
		20	(508)	25/100		010200C2
		25	(635)	125	010250C1	
		30	(762)	150	010300C1	
		35	(889)	175	010350C1	
		40	(1016)	200	010400C1	
80	(2032)	400	010800C1			
120	(3048)	600	010F10C1			
2	(51)	2	(51)	20	020020C1*	
		5	(127)	50	020050C1	
		5	(127)	12.50/50		020050C2*
		10	(254)	100	020100C1	
		10	(254)	25/100		020100C2
		15	(381)	150	020150C1	
		15	(381)	37.50/150		020150C2
		20	(508)	200	020200C1	
		20	(508)	50/200		020200C2
		25	(635)	250	020250C1	
		30	(762)	300	020300C1	
		35	(889)	350	020350C1	
		40	(1016)	400	020400C1	
3	(76)	3	(76)	45	030030C1	
		5	(127)	75	030050C1	
		5	(127)	18.75/75		030050C2
		10	(254)	150	030100C1	
		10	(254)	37.50/150		030100C2
		15	(381)	225	030150C1	
		15	(381)	56.25/225		030150C2
		20	(508)	300	030200C1	
		20	(508)	75/300		030200C2
		25	(635)	375	030250C1	
		30	(762)	450	030300C1	
		35	(889)	525	030350C1	
		40	(1016)	600	030400C1	

CONTINUED

RAPID SHIP

- **RS** - Next day shipment up to 10 pieces for orders with part number configuration -0001B.

* Due to their high resistance, these heaters are not recommended for curved or flexing applications.

Notes:

- Thickness 0.055 in. (1.4 mm)
- Heaters have lead length of 12 in. (305 mm) UL® 1180 PTFE
- UL® component recognition
- Silicone rubber wire-wound elements rated at 5 W/in² (0.78 W/cm²)

Flexible Heaters

Silicone Rubber Heaters

Wire-Wound Elements – RAPID SHIP Offering (Continued)

Width		Length		Watts	120VAC Part Number	120/240VAC Part Number
in.	(mm)	in.	(mm)			
4	(102)	4	(102)	80	040040C1	
		5	(127)	100	040050C1	
		5	(127)	25/100		040050C2
		10	(254)	200	040100C1	
		10	(254)	50/200		040100C2
		15	(381)	300	040150C1	
		15	(381)	75/300		040150C2
		20	(508)	400	040200C1	
		20	(508)	100/400		040200C2
		25	(635)	500	040250C1	
		30	(762)	600	040300C1	
35	(889)	700	040350C1			
40	(1016)	800	040400C1			
5	(127)	5	(127)	125	050050C1	
		5	(127)	31.25/125		050050C2
		10	(254)	250	050100C1	
		10	(254)	62.50/250		050100C2
		15	(381)	375	050150C1	
		15	(381)	9.38/375		050150C2
		20	(508)	500	050200C1	
		20	(508)	125/500		050200C2
		25	(635)	625	050250C1	
		30	(762)	750	050300C1	
		35	(889)	875	050350C1	
40	(1016)	1000	050400C1			
6	(152)	5	(127)	150	060050C1	
		5	(127)	37.50/150		060050C2
		10	(254)	300	060100C1	
		10	(254)	75/300		060100C2
		15	(381)	450	060150C1	
		15	(381)	112.50/450		060150C2
		20	(508)	600	060200C1	
		20	(508)	150/600		060200C2
		25	(635)	750	060250C1	
		30	(762)	900	060300C1	
		35	(889)	1050	060350C1	
40	(1016)	1200	060400C1			

RAPID SHIP

- RS - Next day shipment up to 10 pieces for orders with part number configuration -0001B.

* Due to their high resistance, these heaters are not recommended for curved or flexing applications.

Notes:

- Thickness 0.055 in. (1.4 mm)
- Heaters have lead length of 12 in. (305 mm) UL® 1180 PTFE
- UL® component recognition
- Silicone rubber wire-wound elements rated at 5 W/in² (0.78 W/cm²)

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Etched Foil Elements – RAPID SHIP Offering

Width in. (mm)	Length in. (mm)	Watts	W/in ² (W/cm ²)	120VAC Part Number	120/240VAC Part Number	
1 (25)	5 (127)	25	5 (0.8)	F010050C3		
	5 (127)	50	10 (1.6)	F010050C7		
	5 (127)	12.5/50	2.5/10 (0.4/1.6)			F010050C8
	10 (254)	100	10 (1.6)	F010100C7		
	10 (254)	25/100	2.5/10 (0.4/1.6)			F010100C8
	15 (381)	150	10 (1.6)	F010150C7		
	15 (381)	37.5/150	2.5/10 (0.4/1.6)			F010150C8
	20 (508)	200	10 (1.6)	F010200C7		
20 (508)	50/200	2.5/10 (0.4/1.6)		F010200C8		
2 (51)	5 (127)	100	10 (1.6)	F020050C7		
	5 (127)	25/100	2.5 /10 (0.4/1.6)			F020050C8
	10 (254)	200	10 (1.6)	F020100C7		
	10 (254)	50/200	2.5 /10 (0.4/1.6)			F020100C8
	15 (381)	300	10 (1.6)	F020150C7		
	15 (381)	75/300	2.5/10 (0.4/1.6)		F020150C8	
	20 (508)	400	10 (1.6)	F020200C7		
20 (508)	100/400	2.5/10 (0.4/1.6)		F020200C8		
3 (76)	5 (127)	75	5 (0.8)	F030050C3		
	5 (127)	150	10 (1.6)	F030050C7		
	5 (127))	37.5/150	2.5 /10 (0.4/1.6)			F030050C8
	10 (254)	300	10 (1.6)	F030100C7		
	10 (254)	75/300	2.5 /10 (0.4/1.6)			F030100C8
	15 (381)	450	10 (1.6)	F030150C7		
	15 (381)	112/450	2.5 /10 (0.4/1.6)			F030150C8
	20 (508)	600	10 (1.6)	F030200C7		
20 (508)	150/600	2.5 /10 (0.4/1.6)		F030200C8		
4 (102)	5 (127)	200	10 (1.6)	F040050C7		
	5 (127)	50/200	2.5 /10 (0.4/1.6)			F040050C8
	10 (254)	400	10 (1.6)	F040100C7		
	10 (254)	100/400	2.5 /10 (0.4/1.6)			F040100C8
	15 (381)	600	10 (1.6)	F040150C7		
	15 (381)	150/600	2.5/10 (0.4/1.6)		F040150C8	
	20 (508)	800	10 (1.6)	F040200C7		
20 (508)	200/800	2.5/10 (0.4/1.6)		F040200C8		
5 (127)	5 (127)	250	10 (1.6)	F050050C7		
	5 (127)	62.5/250	2.5/10 (0.4/1.6)			F050050C8
	10 (254)	500	10 (1.6)	F050100C7		
	10 (254)	125/500	2.5/10 (0.4/1.6)			F050100C8
	15 (381)	750	10 (1.6)	F050150C7		
	15 (381)	187/750	2.5/10 (0.4/1.6)		F050150C8	
	20 (508)	1000	10 (1.6)	F050200C7		
20 (508)	250/1000	2.5/10 (0.4/1.6)		F050200C8		
6 (152)	5 (127)	300	10 (1.6)	F060050C7		
	5 (127)	75/300	2.5/10 (0.4/1.6)			F060050C8
	10 (254)	600	10 (1.6)	F060100C7		
	10 (254)	150/600	2.5 /10 (0.4/1.6)			F060100C8
	15 (381)	900	10 (1.6)	F060150C7		
	15 (381)	225/900	2.5/10 (0.4/1.6)		F060150C8	
	20 (508)	1200	10 (1.6)	F060200C7		
20 (508)	300/1200	2.5/10 (0.4/1.6)		F060200C8		

RAPID SHIP

• RS - Next day shipment up to 10 pieces for orders with part number configuration 0001B.

Notes:

- Silicone rubber etched foil elements 0.022 in. (0.56 mm) thick
- Heaters have standard lead length of 12 in. (305 mm) UL® 1180 PTFE
- UL® component recognition

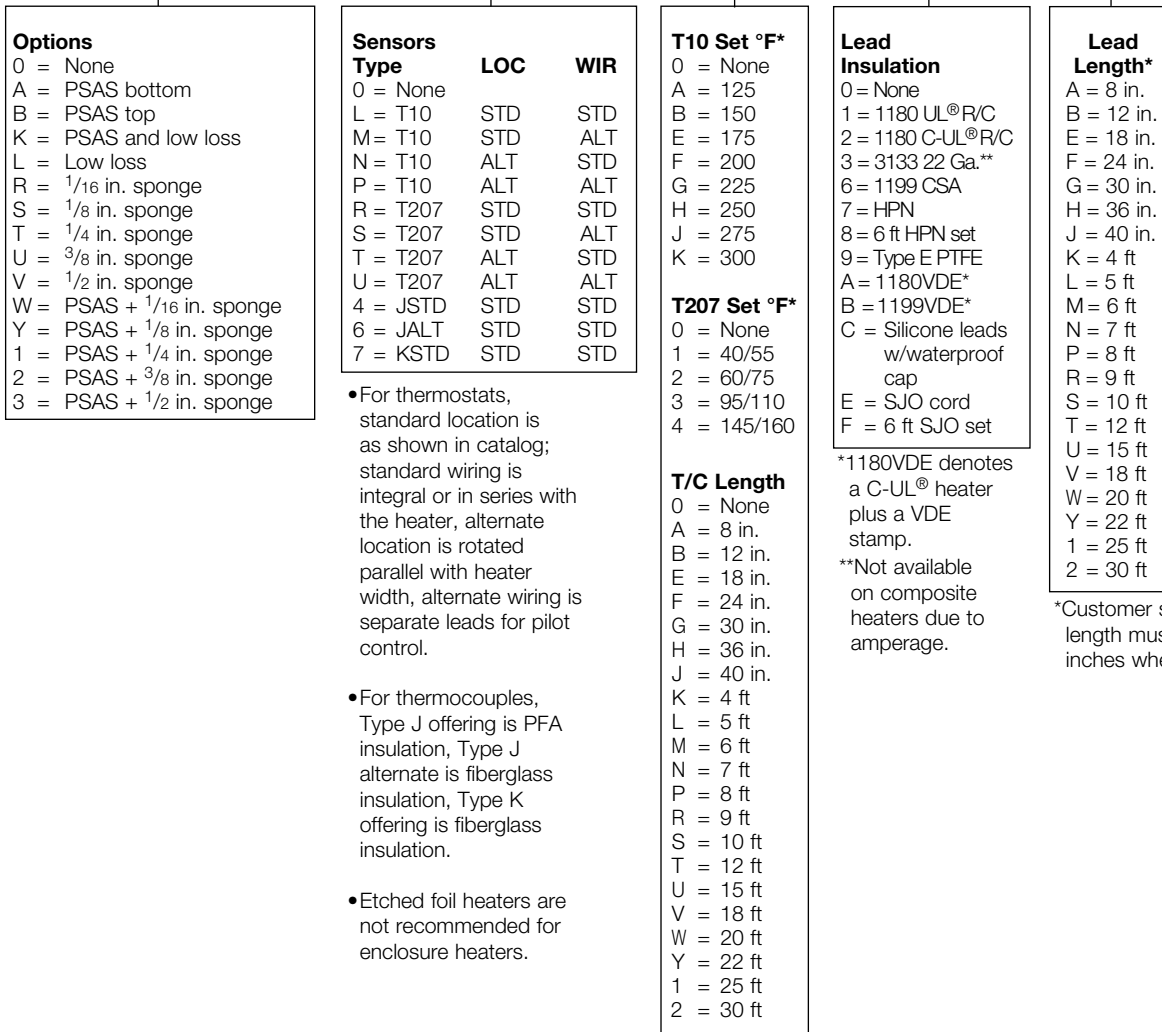
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Etched Foil Elements – RAPID SHIP Offering Coding Configured Options

To order, complete the part number with the information below:

Etched Foil
F0 -



- For thermostats, standard location is as shown in catalog; standard wiring is integral or in series with the heater, alternate location is rotated parallel with heater width, alternate wiring is separate leads for pilot control.

- For thermocouples, Type J offering is PFA insulation, Type J alternate is fiberglass insulation, Type K offering is fiberglass insulation.

- Etched foil heaters are not recommended for enclosure heaters.

T207 Set °F*

0 = None
 1 = 40/55
 2 = 60/75
 3 = 95/110
 4 = 145/160

T/C Length

0 = None
 A = 8 in.
 B = 12 in.
 E = 18 in.
 F = 24 in.
 G = 30 in.
 H = 36 in.
 J = 40 in.
 K = 4 ft
 L = 5 ft
 M = 6 ft
 N = 7 ft
 P = 8 ft
 R = 9 ft
 S = 10 ft
 T = 12 ft
 U = 15 ft
 V = 18 ft
 W = 20 ft
 Y = 22 ft
 1 = 25 ft
 2 = 30 ft

*1180VDE denotes a C-UL® heater plus a VDE stamp.

**Not available on composite heaters due to amperage.

*Customer specified length must be noted in inches when ordering.

*For all thermostats, the heater must be a 2 in. min. width and a 5 in. min. length.

Flexible Heaters

Silicone Rubber Heaters

Composite Bonding Applications

Watlow offers silicone rubber heaters commonly used for composite bonding and curing. The design includes equal length circuits and a no-heat tab for temperature uniformity. The contact surface is made using smooth silicone to prevent composite surface imperfections. The heaters are fiberglass reinforced to provide lasting field service durability and life.

Performance Capabilities

- Watt density up to 5 W/in² (0.8 W/cm²)
- Voltage of 120VAC/240VAC (option) single phase
- UL® recognized

Features and Benefits

Customized leads

- Allows up to 30 feet of lead length

Field service ease

- Enables on-site repairs

Equal length circuits — min. 2 x 2 in. (51 x 51 mm) tab with radius

- Creates temperature uniformity

Smooth contact surface

- Prevents composite surface imperfections

Typical Applications

- Aerospace industry
 - Repair
 - Fabrication
- Composite bonding processes



Flexible Heaters

Silicone Rubber Heaters

Wire-Wound Elements – Composite Bonding Applications

Composite Heaters “L”

Width		Length		Watts	120VAC	120/240VAC
in.	(mm)	in.	(mm)		Part Number	Part Number
6	(152)	6	(152)	180	L060080C1	
		6	(152)	180		L060080C2
		10	(254)	300	L060120C1	
		10	(254)	300		L060120C2
8	(203)	8	(203)	320	L080100C1	
		8	(203)	320		L080100C2
		12	(305)	480	L080140C1	
		12	(305)	480		L080140C2
10	(254)	10	(254)	500	L100120C1	
		10	(254)	500		L100120C2
		12	(305)	600	L100140C1	
		12	(305)	600		L100140C2
		18	(457)	900	L100200C1**	
		18	(457)	900		L100200C2
12	(305)	12	(305)	720	L120140C1**	
		12	(305)	720		L120140C2
		18	(457)	1080	L120200C1**	
		18	(457)	1080		L120200C2**
		24	(610)	1440	L120260C1**	
24	(610)	1440		L120260C2**		
16	(406)	16	(406)	1280	L160180C1**	
		16	(406)	1280		L160180C2**
18	(457)	18	(457)	1620	L180200C1**	
		18	(457)	1620		L180200C2**
20	(508)	20	(508)	2000	L200220C1*	
		20	(508)	2000		L200220C2**

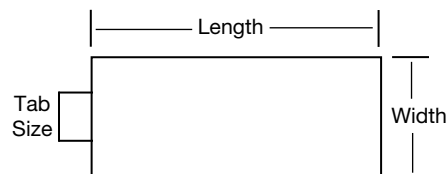
• **M** - Manufacturing lead times

Notes:

- Thickness 0.055 in. (1.4 mm)
- Lead length 12 in. (305 mm) UL® 1180 PTFE
- UL® component recognition
- Silicone rubber wire-wound elements rated at 5 W/in²
- Length does not include 2 in. (51 mm) tab for leads
- Smooth surface

* **Thermostat option is not available for this heater.**

** **Only T207 thermostat option is available.**



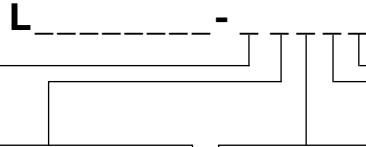
Flexible Heaters

Silicone Rubber Heaters

Etched Foil Elements — Coding Configured Options Composite Heaters “L”

To order, complete the part number with the information below:

Composite Flexible Stock Heaters



Modification Options
0 = None
A = PSAS bottom
B = PSAS top
K = PSAS and low loss
L = Low loss
R = 1/16 in. sponge
S = 1/8 in. sponge
T = 1/4 in. sponge
U = 3/8 in. sponge
V = 1/2 in. sponge
W = PSAS + 1/16 in. sponge
Y = PSAS + 1/8 in. sponge
1 = PSAS + 1/4 in. sponge
2 = PSAS + 3/8 in. sponge
3 = PSAS + 1/2 in. sponge

Sensors Type	LOC	WIR
0 = None		
L = T10	STD	STD
M = T10	STD	ALT
N = T10	ALT	STD
P = T10	ALT	ALT
R = T207	STD	STD
S = T207	STD	ALT
T = T207	ALT	STD
U = T207	ALT	ALT
4 = JSTD	STD	STD
6 = JALT	STD	STD
7 = KSTD	STD	ST

- For thermostats, standard location is as shown in catalog; standard wiring is integral or in series with the heater, alternate location is rotated parallel with heater width, alternate wiring is separate leads for pilot control.

- For thermocouples, Type J offering is PFA insulation, Type J alternate is fiberglass insulation, Type K offering is fiberglass insulation.

- Etched foil heaters are not recommended for enclosure heaters.

T10 Set °F*
0 = None
A = 125
B = 150
E = 175
F = 200
G = 225
H = 250
J = 275
K = 300

T207 Set °F*
0 = None
1 = 40/55
2 = 60/75
3 = 95/110
4 = 145/160

T/C Length
0 = None
A = 8 in.
B = 12 in.
E = 18 in.
F = 24 in.
G = 30 in.
H = 36 in.
J = 40 in.
K = 4 ft
L = 5 ft
M = 6 ft
N = 7 ft
P = 8 ft
R = 9 ft
S = 10 ft
T = 12 ft
U = 15 ft
V = 18 ft
W = 20 ft
Y = 22 ft
1 = 25 ft
2 = 30 ft

Lead Insulation
0 = None
1 = 1180 UL®R/C
2 = 1180 C-UL®R/C
3 = 3133 22 Ga.**
6 = 1199 CSA
7 = HPN
8 = 6 ft HPN set
9 = Type E PTFE
A = 1180VDE*
B = 1199VDE*
C = Silicone leads w/waterproof cap
E = SJO cord
F = 6 ft SJO set

* 1180VDE denotes a cUR® heater plus a VDE stamp.

**Not available on composite heaters due to amperage.

Lead Length*
A = 8 in.
B = 12 in.
E = 18 in.
F = 24 in.
G = 30 in.
H = 36 in.
J = 40 in.
K = 4 ft
L = 5 ft
M = 6 ft
N = 7 ft
P = 8 ft
R = 9 ft
S = 10 ft
T = 12 ft
U = 15 ft
V = 18 ft
W = 20 ft
Y = 22 ft
1 = 25 ft
2 = 30 ft

* Customer specified length must be noted in inches when ordering.