

Flexible Heaters

Silicone Rubber Heaters

Composite Bonding Applications

The composite bonding industry is a large field that is expanding into a variety of areas. One of the primary fields that utilizes flexible heaters for curing is the aerospace industry. Watlow® offers a list of heaters commonly used for composite bonding and curing. The design includes equal length circuits and a no-heat tab for temperature uniformity. Also, the contact surface is made of a 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 foot of lead length

Field service ease

- Makes on-site repairs possible

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



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Wire-Wound Elements – Composite Bonding Applications

Composite Heaters “L”

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

RAPID SHIP

- 2 to 5 day shipment

Notes:

- Thickness 0.055 in. (1.4 mm)
- Lead length 12 in. (305 mm) UL® 1180 Teflon®
- 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.

