



BENCHMARK THERMAL

Benchmark Thermal Corporation
13185 Nevada City Avenue, Grass Valley, CA 95945
530-477-5011 (PH) 530-477-6507 (FAX)
www.BenchmarkThermal.com

Silicone Rubber Stock Heaters



A wide variety of stock heaters are available in the most popular sizes and power densities for immediate, off-the-shelf delivery. Silicone rubber/fiberglass insulated stock heaters range from 1" x 2" to 12" x 12" and are rated at 2.5, 5, or 10 watts per square inch at 115 volts. Twelve inch Teflon insulated leads are provided. We also offer and stock circular heaters with diameters ranging from 3" to 12" in 1" increments. All rounds are available with 2.5, 5 and 10 watts per square inch power densities. Stock heaters may optionally be bonded in place using RTV silicone rubber cement.

For applications where a stock heater will not suffice, Benchmark Thermal specializes in the design of custom heating elements in a wide variety of shapes and sizes. We can accommodate contours, holes, and notches. Special fasteners, adhesive backing, built-in thermostats, and thermocouples are available. UL Component Recognition for the U.S. and Canada is also available.

Benchmark Thermal heaters in rectangular, circular, and custom configurations, featuring fiberglass reinforced silicone rubber insulating jackets and wire wound elements, are always in stock for off-the-shelf delivery.

STOCK HEATER FEATURES

- ▶ Operate to 475°F continuous
- ▶ Power densities of 2.5, 5, and 10 watts/in² at 115 volts
- ▶ Dielectric strength 2000 VAC
- ▶ Resistance tolerance +10% / -5%
- ▶ Thickness .060" +/- .005" except at lead exit
- ▶ Lead wires are Teflon insulated
- ▶ Lead length is 12" maximum



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STOCK HEATER SIZES AVAILABLE

Rectangular Shapes

All heaters available with 2.5, 5, or 10 watts/square inch

2 x 2	3 x 3	4 x 4	5 x 5	6 x 6
1 x 2	2 x 3	3 x 4	4 x 5	5 x 6
1 x 3	2 x 4	3 x 5	4 x 6	5 x 7
1 x 4	2 x 5	3 x 6	4 x 7	5 x 8
1 x 5	2 x 6	3 x 7	4 x 8	5 x 9
1 x 6	2 x 7	3 x 8	4 x 9	5 x 10
1 x 7	2 x 8	3 x 9	4 x 10	5 x 11
1 x 8	2 x 9	3 x 10	4 x 11	5 x 12
1 x 9	2 x 10	3 x 11	4 x 12	
1 x 10	2 x 11	3 x 12		
1 x 11	2 x 12			
1 x 12				
7 x 7	8 x 8	9 x 9	10 x 10	11 x 11
	7 x 8	8 x 9	9 x 10	10 x 11
		7 x 9	8 x 10	9 x 11
			7 x 10	8 x 11
				7 x 11
				8 x 12
				7 x 12

Round Shapes

All heaters available with 2.5, 5, or 10 watts/square inch

DIAMETER"		
3	6	9
4	7	10
5	8	11
		12

CUSTOM HEATER VARIATIONS

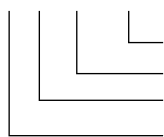
Benchmark Thermal Corporation specializes in custom heater design. We offer custom heater variations in addition to all the standards listed above.

ORDERING INFORMATION

- ▶ Determine width/length or diameter desired
- ▶ Determine power density desired
- ▶ Specify part number

Part Number Specification

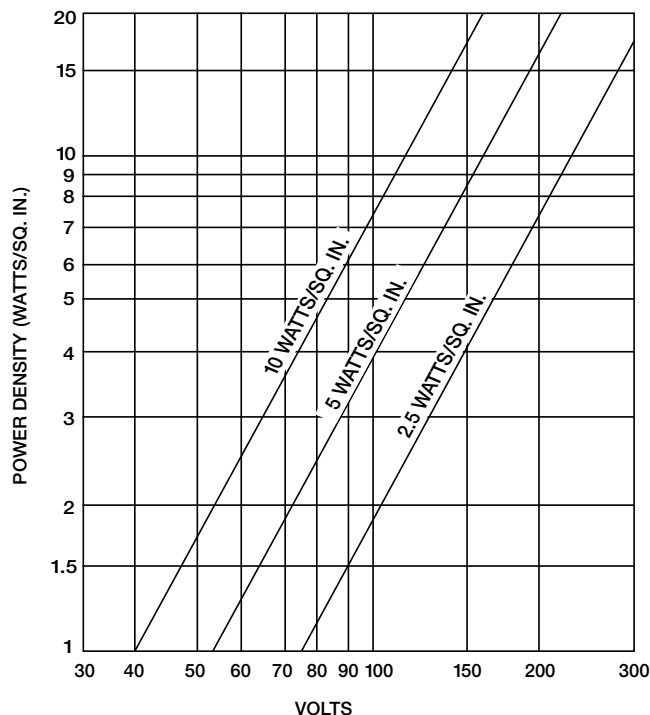
BF-4x5-5-115



115 VOLTS
5 WATTS PER IN SQ
LENGTH IN INCHES
WIDTH IN INCHES*

* Size for round heater = diameter in inches only (e.g. BF-6-5-115 diameter heater)

ATTAINABLE WATT DENSITIES



- ▶ Find desired density on ordinate scale
- ▶ Move right to standard density line
- ▶ Move down and read voltage on abscissa scale

EFFECT OF POWER DENSITY

Gentle warming is best done with 2.5 watts per square inch. A good all purpose unit is the 5 watts per square inch heater. Rapid warm-up and high temperature are achieved with 10 watts per square inch, however, temperature must be controlled as safe limit of 475° F would be exceeded.

For your exact heater needs, quotes or questions, please contact **800-748-6189**
or **thermal@BenchmarkThermal.com**