

## Specifications & Tolerances

**Standard Specifications and Tolerances** of Finned Strip Heaters If tighter tolerances are required, consult Tempco.

### PERFORMANCE RATINGS

**Maximum Sheath Temperature:** 1200°F (650°C)

**Maximum Watt Density:**

Air Condition	Max. W/in <sup>2</sup>	Max. W/cm <sup>2</sup>
<b>Still Air</b>		
Up to 300°F (149°C)	20	3.1
300° to 600°F (149° to 316°C)	16	2.5
600° to 800°F (316° to 427°C)	10	1.6
<b>Moving Air</b>		
At 600 ft./min., up to 200°F (3 m/sec., up to 93°C)	40	6.2
At 600 ft./min., up to 400°F (3 m/sec., up to 204°C)	30	4.7
At 600 ft./min., up to 600°F (3 m/sec., up to 316°C)	20	3.1

### Agency Approvals

Finned Channel Strip Heaters have been certified as Recognized Components by Underwriters Laboratories (File Number E65652) under CCN KSOT2/8 to meet UL standard 499 and Canadian Standard C22.2 No. 72.

This file specifies the end use limitations and conditions of acceptability for the use of this type of heater. For additional information consult Tempco.

*If you require UL/CSA Agency Approval, please specify when ordering.*

### ELECTRICAL SPECIFICATIONS

**Maximum Voltage:** 480VAC (when applicable)

**Maximum Amperage:** 25 amps

**Resistance Tolerance:** +10%, -5%

**Wattage Tolerance:** +5%, -10%

### MATERIAL SPECIFICATIONS & PHYSICAL SIZES

**Sheath:** 304 Stainless Steel

**Fins:** Nickel Plated Steel (Stainless Steel Optional)

**Screw Terminals:** Stainless Steel 10-32 UNF Threads

**Width Including Fins:** 2"

**Height Including Fins:** 1-3/8"

**Length Tolerance:** Up to 24" ± 1/16", over 24" ± 1/8"

**Mounting Slot Size:** Standard 5/16" × 1/2"

**Slot Size For Secondary Insulating Bushing:** 1/2" × 5/8" for 300 Volts and above



**Note:** For Internal Power Variations see page 8-8.

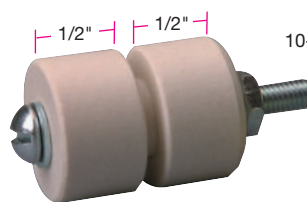
### Secondary Insulating Bushings

Used to mount finned strip heaters in air heating applications. Also can be used when it is necessary to electrically isolate the heater from ground.

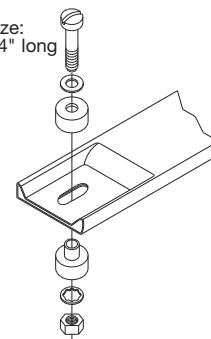
When Insulating Bushings are required, a 1/2" × 5/8" slot is substituted for the standard slot size (5/16" × 1/2").



When using secondary insulating bushings, the heater must be guarded to avoid any accidental contact. The guard must be electrically isolated from the heater and must be properly grounded.



Screw Size:  
10-32 × 1-3/4" long



### Insulating Bushing Assembly

**Part Number:** CERR-1001

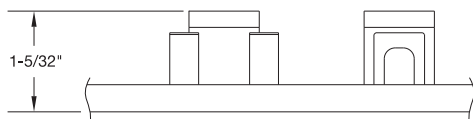
**NOTE:** Two assemblies are required for each heater.

### Ceramic Covers for Insulating Screw Terminals

#### Igloo™ Ceramic Covers

Igloo Ceramic terminal covers consist of two individual ceramic parts. With a tight-fitting cap and a solid base, an Igloo cover will fully insulate any standard 10-32 terminal lug used for electrical wiring hookups.

Igloo covers can be assembled on all Channel Strip and Finned Strip heaters with Type T1 and Type T4 screw terminals. Channel Strip heaters with screw terminals that have a minimum center to center distance of 7/8" can also be assembled with Igloo covers.

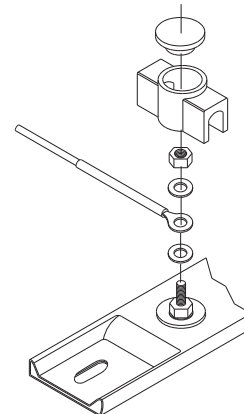


**Type C6**  
Double Port In-Line  
**Part Number:** CER-101-104

**Type C7**  
Double Port 90°  
**Part Number:** CER-101-106



**Type C8**  
Single Port  
**Part Number:** CER-101-107



**Ceramic Cap**  
**Thread** 10-32  
**Part Number** CER-102-101

