Insulated Flat Face Short Neck Series CRN and CRZ Ceramic E-Mitters

**Design Features**
- Universal mount designed to be dropped into existing systems regardless of manufacturer.
- Standard colors are metamorphing rose (cold) to grey (hot), and traditional white. Optional colors are metamorphing yellow (cold) to orange (hot), and black.
- Standard stocked voltage: 120 or 220/240V as noted; other voltages are available.
- Available with built-in type K thermocouple. Optional type J thermocouple is also available.
- Long operating life—over 10,000-plus hours of continuous operation under normal conditions.
- Performance is unaffected under adverse atmospheric conditions.
- 2.5 to 6μm infrared radiation wavelength

### Series CRN Dimensions

- Slot size for ceramic mounting heads: 0.593” X 1.688” obround hole
- Cavity is back-filled with insulation material

### Series CRZ Dimensions

- 1.42” (36 mm)
- 9.65” (245 mm)
- 2.36” (60 mm)

### CRN and CRZ E-Mitter Construction

1. **LESS MASS.** A special manufacturing process allows construction with thin walls that withstand larger temperature gradients. The embedded resistance coils heat up the low mass body at a faster rate, providing energy savings.
2. **SUPERIOR INSULATING MATERIAL.** The hollow inner area is filled with low-mass ceramic fiber to further insulate the contact region from the e-mitter surface, resulting in an improved operating life.

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**Ordering Information**

**Custom Engineered/Manufactured Heaters**

Understanding that an electric heater can be very application specific, for sizes and ratings not listed, TEMPCO can manufacture a CRN or CRZ E-Mitter to meet your requirements. **Standard lead time is 3 weeks.**

**Please Specify** the following:

- **Size:** CRN or CRZ
- **Colors:** Standard are metamorphing rose and straight white, optional are metamorphing yellow and straight black
- **Wattage:** Up to 35w/in² (5.4w/cm²)
- **Voltage:** 120, 208, 240, 277, 480 and others (dependent on design)
- **Thermocouple:** Standard Type K or optional Type J
- **Additional Options:** Start on page 7-20

**WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)