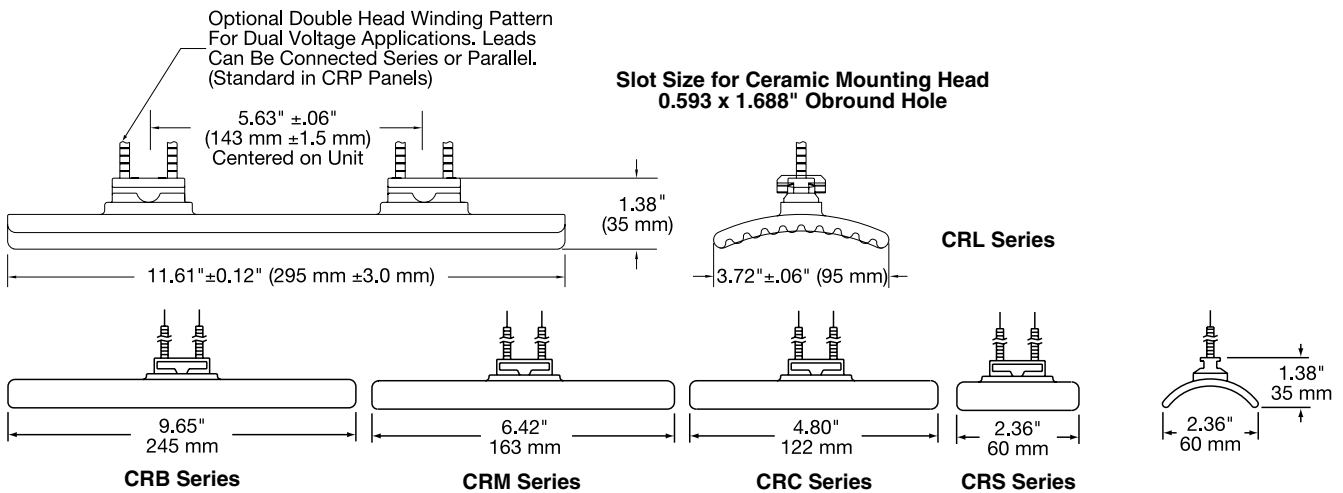


## Curved Face Ceramic Radiant Heaters

### Ceramic E-Mitters

- Standard Solid Curved Face Sizes to Accommodate a Wide Range of New or Existing Applications
- 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—Type J Thermocouple and Low Noise Options are Also Available
- Long Operating Life—Over 10,000-Plus Hours of Continuous Operation Under Normal Conditions
- Performance is Unaffected By Vibration or Adverse Atmospheric Conditions
- 2.5 to 6  $\mu$ m Infrared Radiation Wavelength



### Custom Engineered/Manufactured Heaters

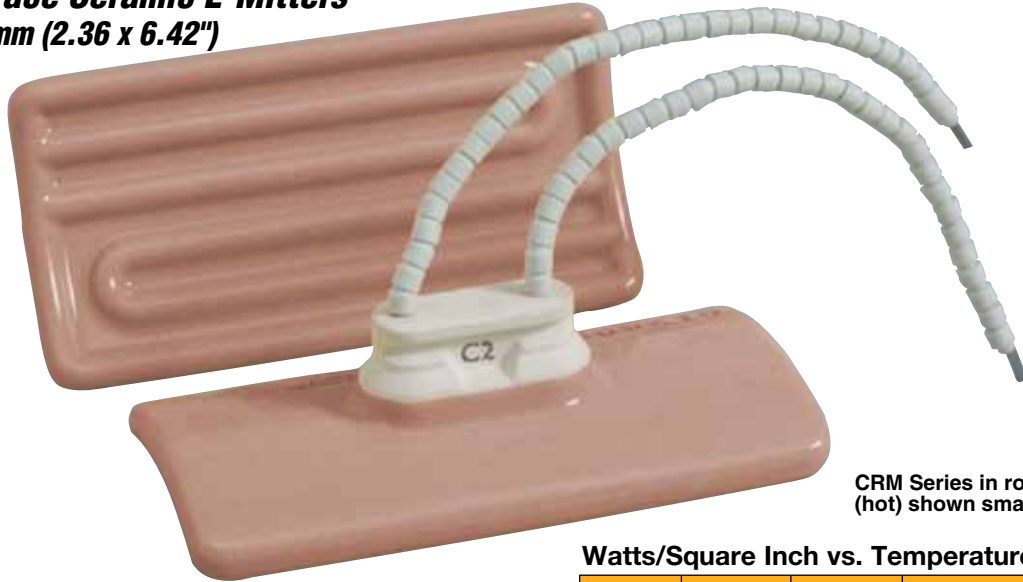
Understanding that an electric heater can be very application specific, for sizes and ratings not listed, OMEGA® can manufacture a Ceramic E-Mitter to meet your requirements.

### Please Specify the Following:

- **Colors:** Standard are metamorphing rose and straight white, optional are metamorphing yellow and straight black
- **Wattage:** Up to 43 watts/in<sup>2</sup> (6.7 watts/cm<sup>2</sup>)
- **Voltage:** 120, 208, 240, 277, 480 Vac and others (dependent on design)
- **Thermocouple:** Standard Type K (Type J optional) or Low Noise Type K (Type J optional)



## Curved Face Ceramic E-Mitters 60 x 163 mm (2.36 x 6.42")



CRM Series in rose (cold) to grey (hot) shown smaller than actual size.

### CRM Series E-Mitters

#### Optional Features

- Additional Power or Thermocouple Lead Lengths
- Two-Piece Wave Mounting Clip
- Reflectors and Other Accessories
- Arrays and Power/Temperature Control Panels

#### Watts/Square Inch vs. Temperature Data

Watts	Surface Watts/in <sup>2</sup> *	Heater Body °F Rise	Heater Body Temp @ 72°F**	Primary Emitted Wavelength*** (µm)
100	6.46	487	559	5.12
150	9.68	641	713	4.45
200	12.91	755	827	4.05
250	16.14	843	915	3.79
300	19.37	915	987	3.60
350	22.60	979	1051	3.45
400	25.82	1041	1113	3.32
450	29.05	1103	1175	3.19
500	32.28	1167	1239	3.07
550	35.51	1230	1302	2.96
600	38.74	1288	1360	2.87
650	41.96	1335	1407	2.79

E-Mitters listed have 89 mm (3.5") ceramic bead insulated leads, #8-10 spade terminals, and a one-piece spring clip for mounting.

### To Order Visit [omega.com/crm\\_series](http://omega.com/crm_series) for Pricing and Details

Model Number		Wattage	Voltage	Color	Watt Density*		Heater Body Temperature** (Typical Operating)	
Without Thermocouple	Standard Type K Thermocouple				Watts/in <sup>2</sup>	Watts/cm <sup>2</sup>	°F	°C
CRM10008	CRM10011	425	120	Rose to Grey	27.44	4.25	1144	618
CRM00008	CRM00011	425	120	White	27.44	4.25	1144	618
CRM10009	CRM10012	500	120	Rose to Grey	32.28	5.00	1239	671
CRM00009	CRM00012	500	120	White	32.28	5.00	1239	671
CRM10010	CRM10013	600	220/240	Rose to Grey	38.74	6.00	1360	738
CRM00010	CRM00013	600	220/240	White	38.74	6.00	1360	738

\* Watt density calculated using heater face surface area.

\*\* E-Mitter heater body temperature as measured with internal thermocouple when mounted face down in stock CRK reflector and operating in 22°C (72°F) room ambient.

\*\*\* Peak infrared radiation wavelength as calculated from Wien's Law, for operating temperature shown. Expressed in microns (µm).

Ordering Example: CRM10008, curved faced radiant heater, 428 W, 120 Vac, rose to grey.