

### Ceramic Quarter Flat Infrared Heating Element Hollow

The standard range of ceramic infrared elements are used in a wide range of industrial and engineering applications such as thermoforming, packaging, paint curing, printing, drying, gluing, sterilisation, roasting etc. Most plastics and many other materials absorb infrared best in the wavelength range of 2 - 10  $\mu\text{m}$ , which makes the ceramic heater the most popular radiant emitter on the market.

Hollow style ceramic elements produce a uniform output better suited to emitters positioned closer to the target material.

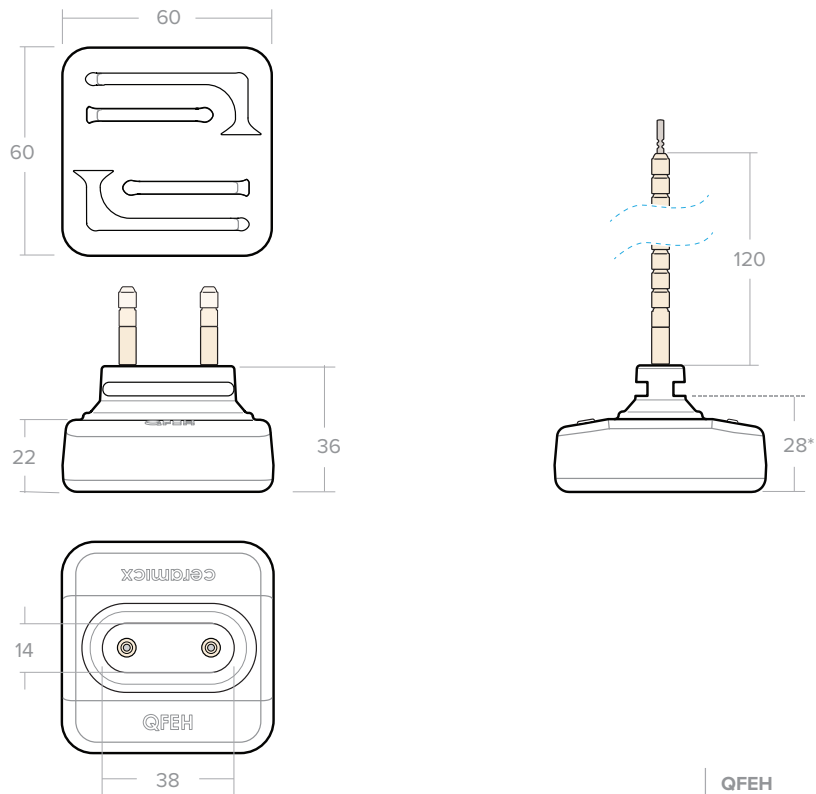
Recommended radiation distance from heater is 100 - 200 mm.

### Technical specification

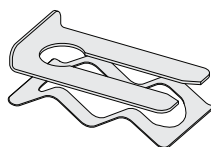
|                          |  |
|--------------------------|--|
| Material                 | Ceramic body, black glaze, embedded resistance heating coil                  |
| Heater Voltage           | 230 V ( <i>standard</i> )  |
| Operating temperature    | Max permissible 800°C ( 1472 °F )  |
| Useful wave-length range | 2 - 10 $\mu\text{m}$ ( <i>microns</i> ) - Long wave                          |
| Dimensions               | 60 x 60 x 36 mm  |
| Average weight           | 90 g   |
| Electric connection      | 120 mm ceramic beaded power leads  |
| Reflector thickness      | Recommended thickness 0.75 - 0.9 mm<br><i>min/max thickness 0.5 - 1.5 mm</i> |
| Mounting slot size       | 42 x 15 mm   |
| Element spacing          | Minimum spacing between elements 5 mm  |
| Average operating life   | Up to 20,000 hrs depending on conditions                                     |
| Standards                | CE   |
| Packaging ( L x W x H )  | 126 x 65 x 64 mm   |

### Standard QFEH range

|       | Mean Surface Temperature<br>°C | Max Power Density<br>kW/m <sup>2</sup> |
|-------|--------------------------------|--|
| 125 W | 550                            | 30                                     |
| 250 W | 755                            | 60                                     |



Element supplied with  
Wave Spring and Clip

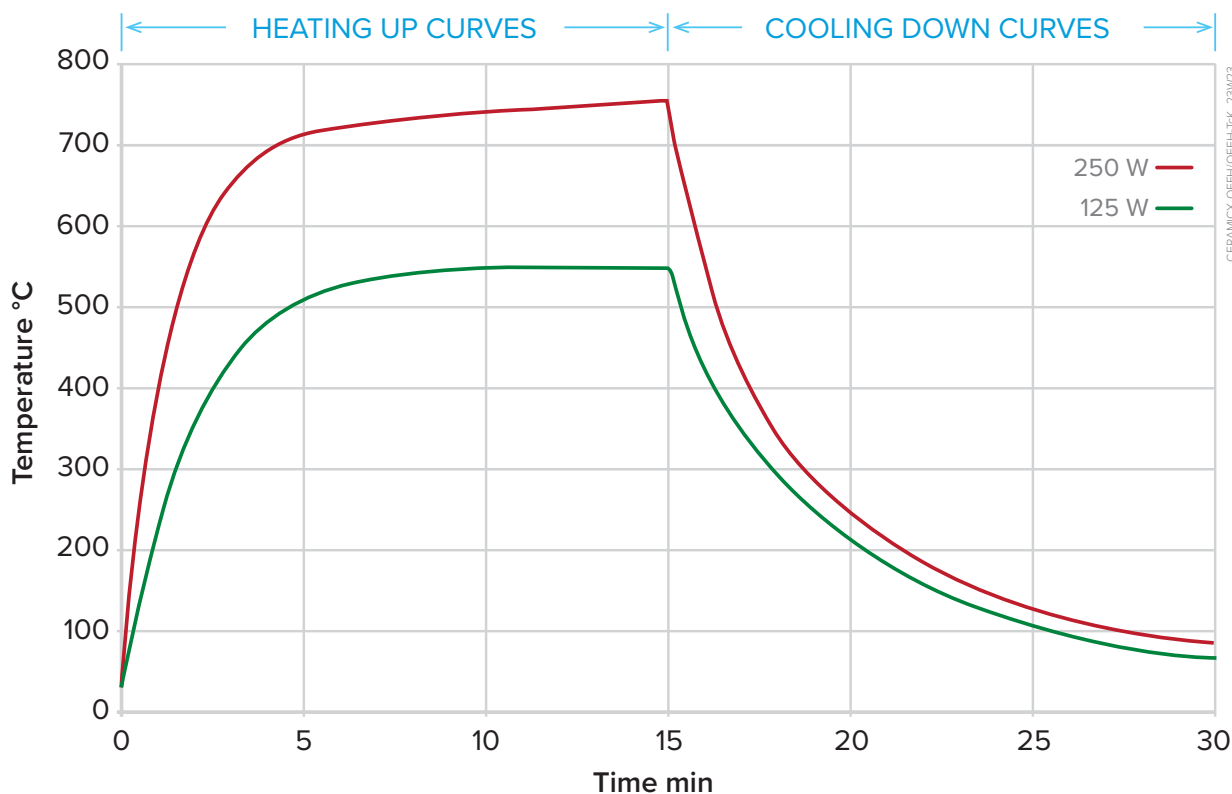


#### QFEH QUARTER FLAT ELEMENT HOLLOW

Tolerances apply, all dimensions mm.  
\* Face of reflector - face of element using  
0.75 mm reflector, mounting hole size 15 x 42 mm



25W42



CERAMICX QFEH/QFEH-TCK 23W23

**QFEH** Heat up and cool down curves showing average surface temperature measured with a thermal imaging camera set to an emissivity of 0.95 ( *element mounted in a polished aluminium clad steel reflector* )