



VULCAN

INFRA-RED EMITTERS APPLICATIONS ELECTRONICS INDUSTRY

Solder Reflow

Vulcatherm's Ceramic Infra-Red Heaters are used in Reflow Machinery in the production of surface mounted circuit boards.

Accurate temperature control is required throughout the process to enable the solder to be melted without damaging the components.



Initially the component is fixed into position with adhesive before entering the four zone reflow unit. In the first zone the solder paste is heated to release solvent used in printing the circuits. The second zone causes the flux to flow. The third and fourth zones increase the temperature progressively to 210°C to 220°C at which temperature reflow occurs.

Temperature control is achieved utilising embedded themocouples within the Heaters, monitored and controlled by computer software enabling accurate control to be achieved.

The programme allows changes in conveyor speed, zone temperature and the rate of temperature change to be adjusted.

Even temperature distribution - and the non-colour selectivity of the emitters - provides enhanced manufacturing quality, reducing rework and scrap to a minimum.

Application Information

Emitter Type :	V1 150W
	V1 300W
	V2 200W
	V2 250W
Unit Rating :	15.5Kw
Power Density	20.9Kw m ⁻²

DISCLAIMER

Any advice, opinion, recommendation or information is given to assist the use of the company's products but on the basis that the end user must ensure their suitability for the application intended.

In particular the company cannot accept liability for loss or damage which may arise from the incorrect use of its products or from poor workmanship on the part of the user.

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