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Flip Chip Soldering Fluxes

PK-001 and PK-002 flip chip epoxy fluxes are designed for use with Sn62 and Sn63 eutectic solders. The fast curing, halide-free, no-clean fluxes can be used for flip chip or chip-scale package (CSP) soldering processes. The fluxes have a stable thermoset residue and are compatible with standard underfill materials, conformal coatings and most finishes and coatings. They are also environmentally friendly. Many effective methods can be used to apply the fluxes, such as pin transfer, stencil printing, dispensing or dipping techniques.

Indium Corp., Utica, NY
www.indium.com

Temperature Indicating Paper

Thermex is a temperature indicating sensor paper (TISP) that reveals temperature distribution between any two heated contacting surfaces. It can assess heat distribution between heat-sealing bars, welding heads, clutch and brake assemblies and other industrial applications where heat analysis is important. The temperature sensor comes in the form of a large, thin sheet. When placed between heated contacting surfaces, the sensor instantly and permanently turns varying intensities, revealing minute variations in temperature. Response time is 0.1 seconds or less, with heat sensing ranges from 93 to 149°C (200 to 300°F). Given its thin profile, the paper is useful for invasive environments that cannot accommodate traditional heat or temperature indicators.

Sensor Products Inc., East Hanover, NJ
www.sensorprod.com/thermex

Screen Printer

The SP60 is a large screen printer designed for both the high- and low-volume manufacturer who requires ultra printing accuracy. The screen printer's benefits include speed—6.0 sec.; accuracy—625 µm (1 mil), with repeatability of 7.5 µm (0.3 mils); and flexibility—full-floating squeegee head, selectable optimized stencil release feature, automated cleaning and universal stencil holding capability to handle 21 in. to 29 in. frames without the need for adapters. The printer also features an intuitive programming interface. Its accurate cartridge head minimizes errors, resulting in greater productivity and efficiency.

Panasonic Factory Automation Co., Elgin, IL
www.panasonicfa.com

Split Vision Rework Station

The Marksman Intruder offers placement and reflow for all types of boards and components, including ball grid array (BGA) and lead-free applications. The station features a convection panel preheat system available in 900w, 1600w and 2400w heater configurations that can duplicate original manufacturing temperature parameters. The system incorporates the P-300 controller with each profile containing up to 16 segments of ramp/soak combined with four integrated real-time thermocouples for profile development.

A.P.E., Key Largo, FL
www.ape.com



Ionizer Controller

The Equilibration model CTC037 maintains the balance of an ionizer within ±1V or better, even in the presence of static charges, and integrates with almost all available one- or multiple-fan DC ionizers equipped with a BNC or RJ11 control jack. The microprocessor-controlled system automatically adjusts its parameters to the optimal performance with a particular ionizer. A built-in indication of balance and decay allows it to monitor ionization performance even if the ionizer does not have control capability. The controller extends time between required ionizer adjustments and tip replacements. Miniature and unobtrusive with no extra cables, the matchbox-sized system is powered by the ionizer, easily fits on the workbench or inside the tool, assuring compliance with balance requirements right where sensitive components are handled.

Credence Technologies, Soquel, CA
www.credencetech.com



Non-Contact Measurement System

Pinnacle is a large format, non-contact dimensional measurement system featuring a granite base and column, passive vibration isolation system and non-contact stage encoders. The system is useful for product design/development and near-line process monitoring applications. Its dual-magnification optical system uses two cameras for near instantaneous magnification changes. Multi-color LED illumination systems allow use of monochromatic red, green, blue or white light for high resolution imaging. The system features a measuring range of 250 x 165 x 100 mm (xyz), an accuracy of U2 (xy plane) = (1.5 + 4L/1000) µm and resolution to 0.025 µm. Applications for the system include ball grid arrays (BGA), micro-BGAs, chip-scale packages (CSPs), flip chip, multi-chip module (MCM) bump-on-die, lead frames, solder paste and chip carriers.

VIEW Engineering Inc., Simi Valley, CA
www.vieweng.com



