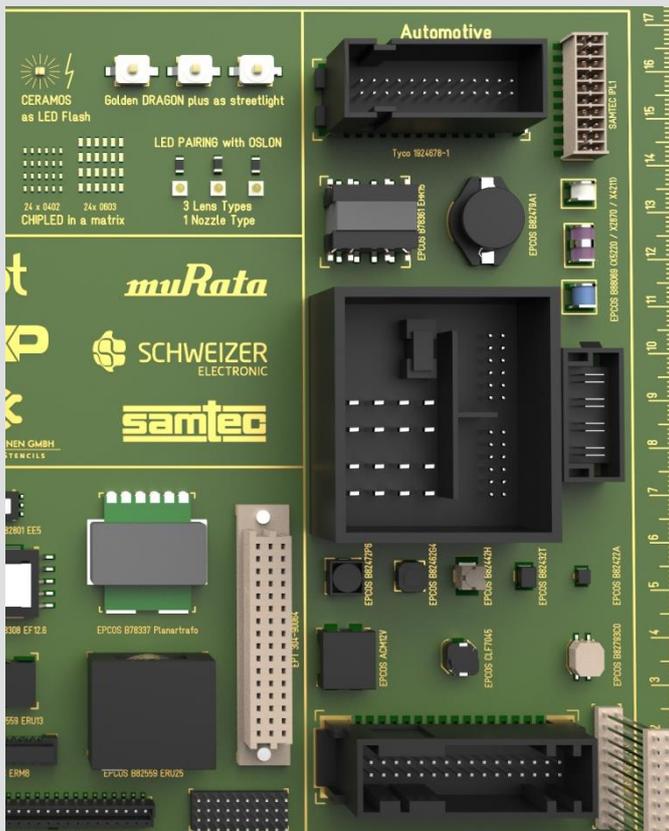


SIPLACE OSC Package

PLACEMENT OF ODD-SHAPED COMPONENTS MADE EVEN EASIER



With the new SIPLACE OSC Package, the fully automatic placement of odd-shaped components is no longer a problem. The OSC functions of the powerful SIPLACE software guarantee optimized recognition with innovative vision systems as well as maximum placement precision – even for highly complex components.



Automated OSC placement

Placing odd-shaped components has long been a major challenge. Because of their shape and/or weight, OSCs often pose an obstacle and must be placed manually. The goal is therefore to place all OSCs automatically to reduce manual labor, maximize product quality, raise productivity, and optimize the utilization of valuable floor space.

The new SIPLACE OSC Package fulfills all these requirements. Thanks to its smart vision and software functions, irregular lead shapes and complex THT components can now be recognized and processed with ease.

Your benefits at a glance:

- Fully automated placement of complex odd-shaped components
- Increased product quality through maximized placement precision
- Time savings through automation
- Placement force of up to 100 N
- Automatic optimization of acceleration values
- Reliable snap-in detection
- Expanded component spectrum

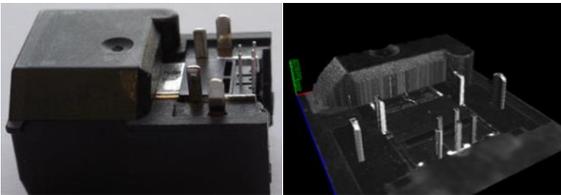
SIPLACE OSC Package

Innovative 3D THT pin recognition

When placing THT components, it is important to detect the precise shape and position of the pins that must be inserted through the circuit board.

Since the shape of the pins as well as reflections and other structures on the component can prevent the vision system from clearly determining the pin positions.

A new stereo vision measurement process has been implemented for the SIPLACE OSC Package. The camera takes two pictures of each component from different positions. The two images are used to generate a 3D image that shows the component structure in great detail.



Specific component description for non-standardized structures

Odd-shaped components don't always have a geometric outline or regular connectors such as pins that can be used to identify and center the component. With the SIPLACE Vision System, you can describe and measure any abstract pattern.



Special position analysis

This function allows you to determine position properties (X/Y angles) irrespective of good/bad recognition characteristics.

Snap-in detection

An automatic process ensures that a component is placed correctly on the circuit board by monitoring the Z-motion height of the placement head (i.e. the component's snap-in).

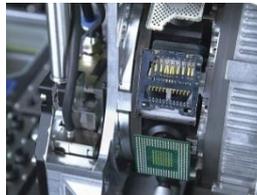
Since doing this with reliable results requires a good PCB support system, the use of SIPLACE Smart Pin Support is recommended.

Placement forces of up to 100 N with the SIPLACE TwinHead

The SIPLACE OSC Package provides the option to place components with a placement force of up to 100 N.

Automatic optimization of acceleration values

SIPLACE placement machines determine the right acceleration values for any component automatically to ensure the fastest possible operating speed.



The SIPLACE OSC Package requires SIPLACE Station Software 710.0 and SIPLACE Pro 14.0 (R16-2).

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A10011-ASM-G177-EN Edition 1-11/2017