

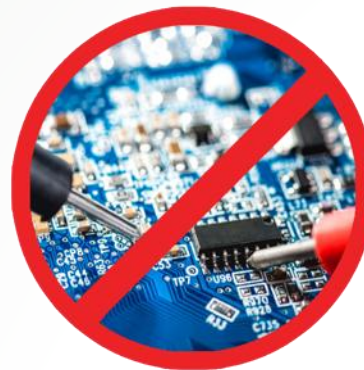


**HARWIN**

**HARDWARE**

**SMT Test Points**

## TRADITIONAL TESTING – SPIKES AND LINKS



The current practice on electrically testing completed PCBs falls into two categories.

- No dedicated test point is used: spike probes are used to inspect current directly from a track, or test lead hooks are hung off existing throughboard tails. This method introduces the possibility of failure due to damage, and inconsistency in test.
- A dedicated test point is added – but existing test points are often throughboard designs, generally quite expensive, and require additional operations to solder onto an SMT board.

## SMT TEST POINTS - PROVIDING MAXIMUM SPACE FLEXIBILITY

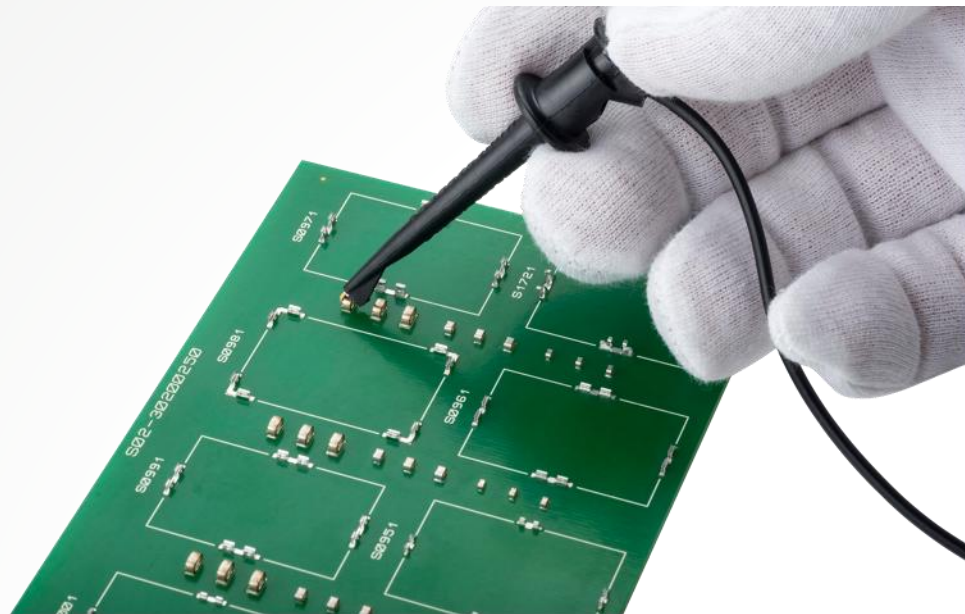


Available in 3 different sizes, the right SMT Test Point can be selected to best suit the size of components on the PCB.

- The original [S1751-46R](#) Test Point (the largest shown here) fits on a footprint of 3.6mm x 2.0mm;
- [S2751-46R](#) has a footprint of 2012 Metric (0805 Imperial);
- [S2761-46R](#) has a 1608 Metric (0603 Imperial) footprint.

Heights ranging from 2.00mm down to 1.15mm permit use in the lowest profile applications.

## HANDS-FREE TESTING WITH TEST CLIPS



All Harwin Test Points are ideal for use with industry standard Test Clips. Once the Test Clip is attached to the Test Point, the engineer can work totally hands-free.

- The [S1751-46R](#) Test Point is ideal for use with standard sizes of Test Clips.
- The smaller [S2751-46R](#) and [S2761-46R](#) Test Points are designed to accommodate the miniature sized Test Clips.

Samples of these Test Points can be requested from the individual Product pages.

## EASY TO IDENTIFY TEST POSITION



Designed to provide a dedicated, easy to identify component on the PCB for electrical testing, the SMT Test Points facilitate a structured method of testing to be established. As the Test Points function is purely one of testing, any accidental damage that may occur will not affect the functionality of the PCB.

## TAPE AND REEL PACKAGING



All Test Points are supplied in Tape and Reel packaging, making them ideal for automated assembly to the PCB. The points will reduce manufacturing costs by eliminating manual assembly/soldering operations – all sizes can be Surface Mounted with the rest of the PCB components.

## PERFORMANCE RATINGS

Current Rating	<b>2A to 3.5A</b>	EIA-364-70A
Contact Resistance	20m $\Omega$	EIA-364-06

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The current rating varies with the Test Point – please see the individual connector Technical Drawings, available to download from any individual product page.

# HARDWARE

## MARKETS



Almost all markets have a requirement for testing PCBs. These test points provide a low-cost, easy-to-use solution when every PCB has to be tested in a production run.

- Aerospace
- Medical
- Drives and Controls
- Communications
- Gas Measurement

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