FLS 106 PCB set

PCB Scanner, 3-Axis Positioning System

Short description

The FLS 106 PCB Langer scanner is a 3-axes positioning system used in conjunction with near-field probes in order to measure magnetic or E-fields up to 20 GHz and to pulse the device under test via H-field sources with pulse fields up to 200 mT.
The near-field probes or field sources can be moved along all three axes above the assembly.
A digital microscope camera allows for optical positioning control above the object being measured.
The included collision protection system stops the vertical movement of the probe if it touches the device under test.

The use of the scanner with near-field probes from the SX, RF, XF or LF family allows measurements in the frequency range from 100 kHz up to 20 GHz.
The FLS 106 PCB scanner is controlled by the ChipScan-Scanner software via a PC. The software simultaneously allows measured values reading from the spectrum analyzer, graphic representation (2D or 3D), the storage and output of measured data (CSV data file). The FLS 106 PCB scanner can be upgraded to a 4-axes positioning system via a rotary unit.

Scope of delivery

1x FLS 106 PCB, 3-Axis Positioning System
1x CS-Scanner, ChipScan-Scanner Software / USB
1x UH DUT set, Universal Holder for Langer scanner
1x SH 01, Probe Holder for Langer scanner
1x DM-CAM, Digital Microscope Camera
1x FLS 106 PCB acc, Accessories
1x FLS 106 m, FLS 106 Set User Manual

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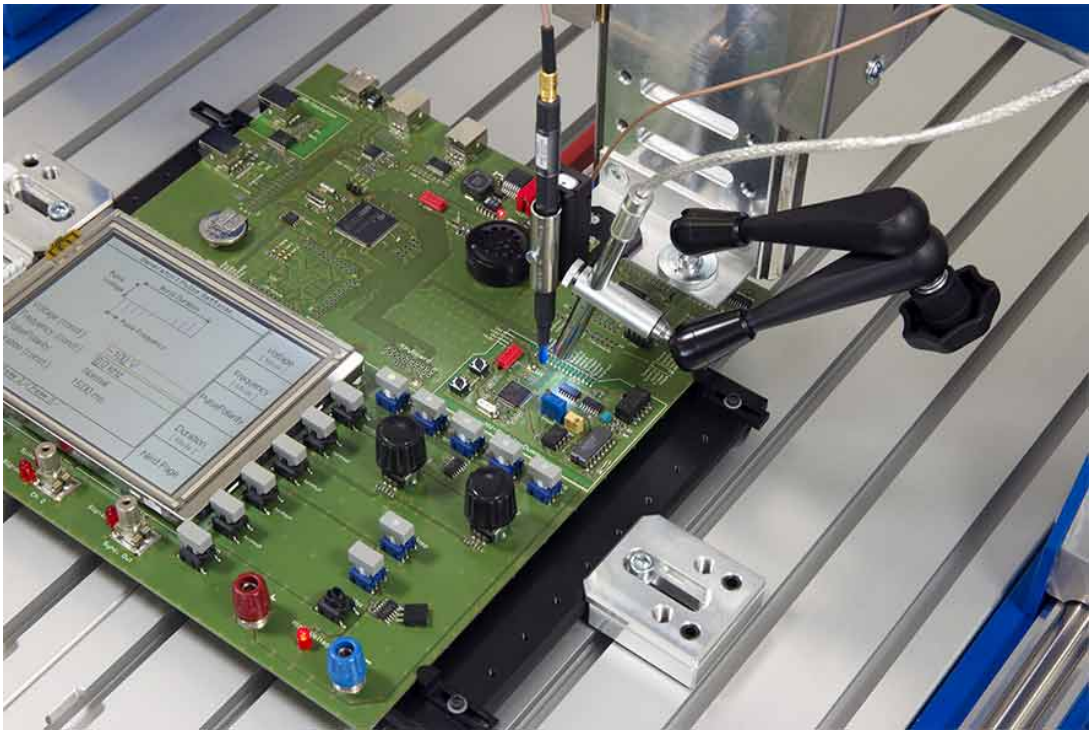
LANGER EMV-Technik

Technical parameters

Supply voltage	110 V / 230 V
Interface	USB
Axes x, y, z; α	
Max. traverse range	(400 x 600 x 120) mm
Min. step size	(20 x 20 x 20) µm
Positioning speed	(20 x 25 x 10) mm/s
Weight	75 kg
Sizes (L x W x H)	(1030 x 775 x 900) mm

FLS 106 application with board, near-field probe and microscope camera

Application of FLS 106 with near-field probe and microscope camera on board to be tested