

S2-16cf Flying Probe Test System

Double sided tester for server boards



- ▲ 16 High Speed Test Heads
- ▲ Maximum Accuracy
- ▲ No Witness Marks
- ▲ Manual Loading for Flex Boards
- ▲ Kelvin 4-Wire Testing

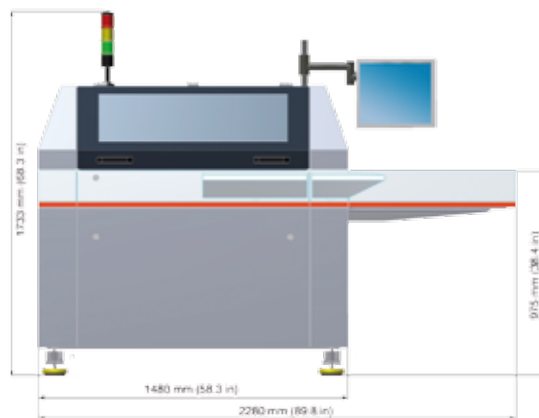
COMBINEDSTRENGTH

atg
test systems

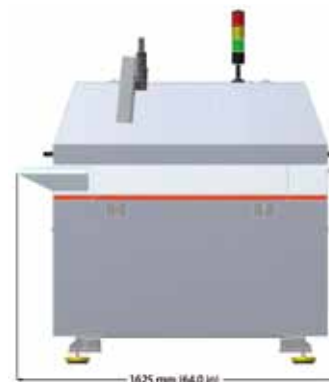
LUTHER & MAELZER

Technical Specification

Flying Probe Test System S2-16cf



Front View



Side View

Mechanics

Double sided test system, 8 probes on top, 8 probes on bottom side
Variable board fixing system with clamp and tension mode for flexible and rigid boards

Max. board size (X x Y)	610 x 640 mm / 24.0" x 25.2"
Test area (X x Y)	600 x 620 mm / 23.6" x 24.4"
Board thickness	up to 5 mm
Smallest pad	25 μ m / 1.0 mil
Smallest pitch	50 μ m / 2.0 mil
System accuracy	\pm 5 μ m / \pm 0.2 mil
Repeatable accuracy	\pm 3 μ m / \pm 0.12 mil
Micro needle probes	0.2 to 2.5 g / no witness marks

Electronics

Continuity test	1 Ω to 10 k Ω
Isolation test	up to 25 M Ω (FM), up to 2 G Ω (ohmic) MicroShort Detection [®]
Test voltage	up to 500 V

Options

- 4-wire measurement:

0.1 m Ω to 5 m Ω	\pm 0.1 m Ω
>5 m Ω to 1 k Ω	\pm 2%
with Kelvin probes	0.2 to 5 g
- Embedded components test:

R	0.5 Ω to 100 Ω	\pm 0.5 Ω
	>100 Ω to 10 M Ω	\pm 0.5 %
	>10 M Ω to 50 M Ω	\pm 2 %
C	0.03 pF to 1.5 pF	\pm 0.03 pF
	>1.5 pF to 100 μ F	\pm 2 %
L	0.1 μ H to 3.33 μ H	\pm 0.1 μ H
	>3.33 μ H to 5 mH	\pm 3 %
- Repair software with barcode support

Camera System

4 color cameras (1024 x 768 pixel) for rapid optical scanning of top and bottom side
Resolution from 9 μ m / pixel

Data Input Format

IPC-D-356A

Network Connection

Ethernet, TCP / IP

Power Supply

3 x 400 V, 50 Hz (3 x 208 V, 60 Hz),
1800 VA

Compressed Air

6 bar / 90 psi, filtered,
constant air quantity

Temperature

18 $^{\circ}$ C to 27 $^{\circ}$ C / 66 $^{\circ}$ F to 81 $^{\circ}$ F, \pm 2 K

Relative Humidity

40% to 60%

Machine Weight

1900 kg

All information subject to change without notice!
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