

ICI 01 L-EFT set

集成电路Langer电磁脉冲耦合

LANGER
EMV-Technik



Short description

Preview for 2017

ICI 01 L-EFT磁场源将快速瞬变脉冲通过磁场耦合到集成电路中（开放式芯片），因此可以选择性地对集成电路的某个区域进行抗干扰性测试。对于安全关键电路，还可以进行模拟旁路通道干扰。该探头具备以下特点：

- 分辨率高达500微米，因此可以对电路中的某一部分有针对性地进行测试。
- 脉冲抖动的触发值极低，因此也能对程序进程中的快速过程有针对性地进行施加影响。

使用该探头需要一台电脑。通过附带的ICI-Client客户端软件或者DLL控制操作ICI 01探头。

Delivery content

- 1x ICI Field Source
- 1x BPS 202, 猝发电站 SMA
- 1x BPS 202-Client, SMA
- 1x NT Ex EU
- 1x ICI 01 L-EFT acc
- 1x ICI case
- 1x ICI m

Technical parameters

脉冲参数	
上升时间	< 2 ns
重复频率	0.1 Hz - 20 kHz
极性 (set by software)	+ / - / alternating
触发器脉冲延迟 (Bypass Modus - Delay Line)	
min. 触发器脉冲延迟 (typ.)	100 ns
max. 触发器脉冲延迟 (typ.)	450 ns
max. Jitter (typ.)	± 1 ns
触发器脉冲延迟 (Timer Mode)	
min. 触发器脉冲延迟 (typ.)	200 ns
max. 触发器脉冲延迟 (typ.)	100 ms
max. Jitter (typ.)	± 15 ns
触发器延迟的最小步距	10 ns
电源电压	BPS 202
软件	BPS 202-Client / DLL (32 Bit / 64 Bit) Win XP SP3 or higher

The diagram illustrates the test setup for the ICS 105 IC scanner. The setup includes the following components and connections:

- ICS 105 * IC scanner:** The main device being tested, mounted on a test board.
- Microscope camera holder *:** Holds the microscope camera for visual inspection.
- Microscope camera *:** Used for visual inspection of the IC.
- SK FI-FI 7P 1 m Cable:** Connects the microscope camera to the BPS 202.
- BPS 202 Burst power station:** Provides power to the test setup.
- Oscilloscope*:** Used for signal analysis.
- Power supply unit 12V / 1A:** Provides power to the oscilloscope.
- OA 4005 * Oscilloscope adapter:** Connects the oscilloscope to the test setup.
- CU 22 * Control unit:** Controls the test setup.
- PC *:** The computer used to control the test setup.
- Test board * with test IC:** The board where the IC is mounted.
- Ground plane:** Provides a common ground for the test setup.
- CB 0708 * Connection board:** Connects the test board to the ground plane.
- GNDA 02 * Ground adapter:** Connects the ground plane to the test board.

The diagram illustrates the setup of the ICI L-EFT system. On the left, the ICI L-EFT probe is shown, which is connected to the BPS 202 burst power station. The BPS 202 is connected to a 12V / 1A power supply and a PC (BPS202-Client). The BPS 202 outputs a Trigger Ready signal and an External Trigger Signal. The ICI L-EFT probe outputs a Pulse signal.

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ICI probe in application

