

# ICI-DP HH500-15

Double Pulse Magnetic Field Source



## Short description

The double pulse magnetic field source ICI-DP HH500-15 is a probe with which fast transient magnetic field pulses can be injected into DUTs e.g. ICs. It is designed for EM fault injection (EMFI) in IC safety applications. With this probe, single pulse as well as a double pulse sequence with a pulse following time of minimum 25 ns can be injected into integrated circuits with precise timing and location.

Via the “sync” inputs, single pulses or double pulses can be injected into the functional sequence of the DUT in a synchronized manner. The probe is powered and controlled via the Burst Power Station BPS 204.

### Technical parameters

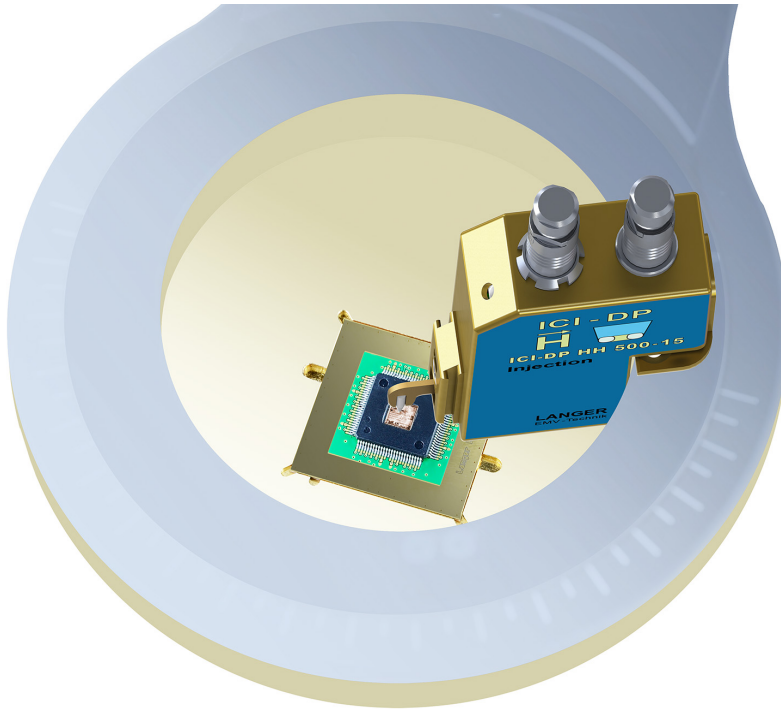
<b>Probe head dimensions</b>	Ø 500 µm
<b>Pulse parameter</b>	
Max. Pulse voltage	1000 V
Rise time	2 ns
Max. current	16 A
Max. magnetic flux density	200 mT
Pulse width	10 ns
Min. double pulse sequence time	25 ns
Repetition frequency	0.1 Hz - 15 kHz (single pulse) 0.1 Hz - 7.5 kHz (double pulse)
Polarity (set by software)	+ / - ( no polarity change within a double pulse)
<b>Min. trigger pulse delay</b>	35 ns
<b>Additional trigger pulse delay (Delay-Line)</b>	Controlled by BPS 204 supply
<b>Supply voltage</b>	BPS 204
<b>Weight</b>	190 g
<b>Sizes (L x W x H)</b>	(26 x 54 x 71) mm

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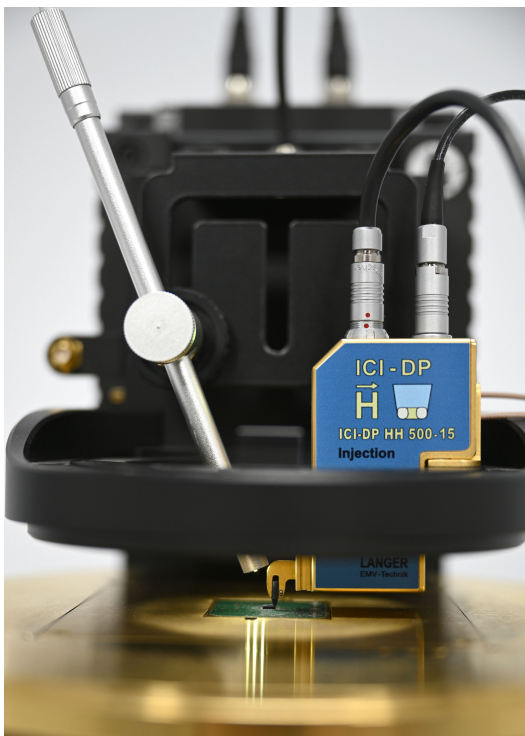
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Application of ICI-DP HH500-15 double pulse magnetic field source



Measurement with ICI-DP double pulse magnetic field source using a ICS 105 Langer IC scanner



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