

P311 L-EFT

Voltage Generator up to 140 V Langer Pulse 1.5/20 ns



Short description

The probe is used to couple in grip bounded pulse current into the IC to be tested. It simulates attenuated disturbance current pulses at the IC input resulting from tests according to IEC 61000-4-2 / ICE 61000-4-4. During a test, disturbance current pulses can result above the magnetic fields .

If the electric field couples into the cable network of an IC to be tested, the voltage of the connected impedances will drop. This voltage drop applies at the IC pin can lead to interferences.

The coupling behaviour can be simulated by a high- ohm pulse voltage source. Therefore the P311 has a high internal resistance. The pulse voltage is adjustable in the range $\pm (5 - 140)V$.

The probe is operated by the BPS 201 burst power station and the BPS-Client control software.

The measuring station of the IC to be tested needs the ICE1 test environment. Depending on the measuring task additional equipment is required (oscilloscope, PC).

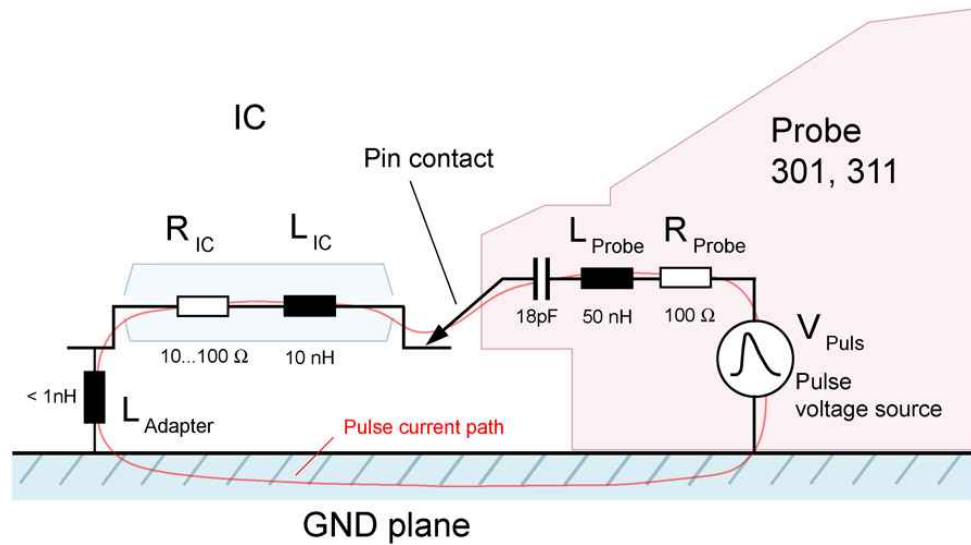
Technical parameters

Internal resistance	$\approx 100 \Omega$
Coupling capacity	18 pF
Pulse parameter	
Shape	1.5 / 20 ns
Frequency	0.1 Hz - 20 kHz
Voltage	$\pm(5 - 140) V$
Inductance	50 nH
Sizes (L x W x H)	(76 x 35 x 31) mm

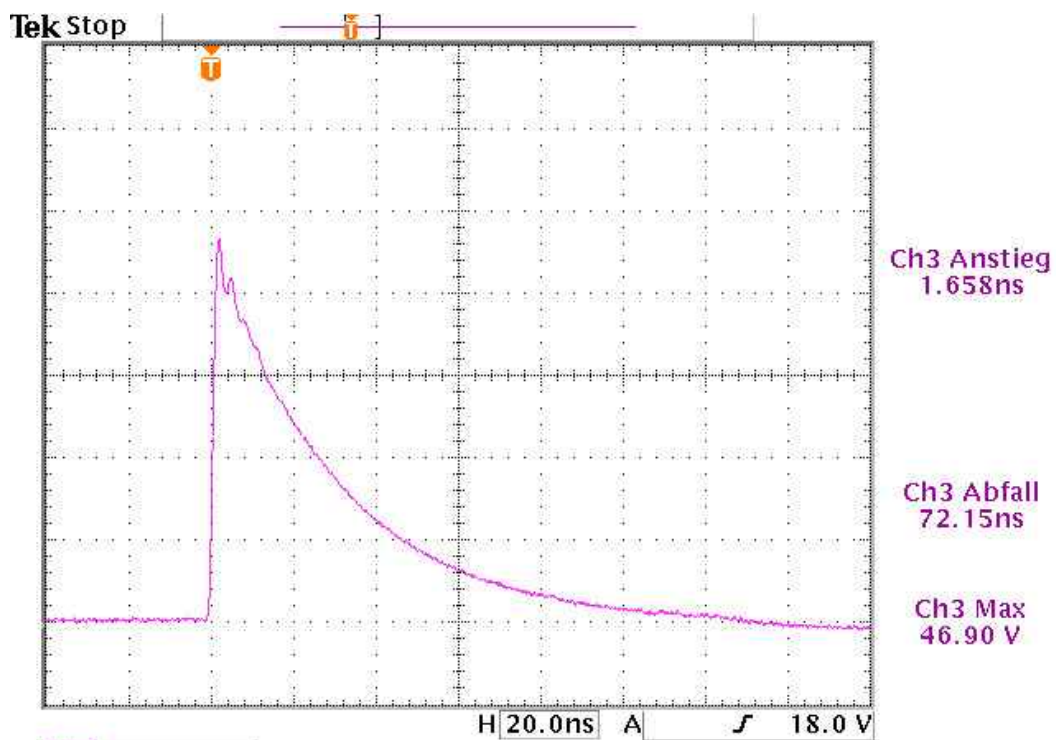
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Equivalent circuit



Pulse shape (measured)

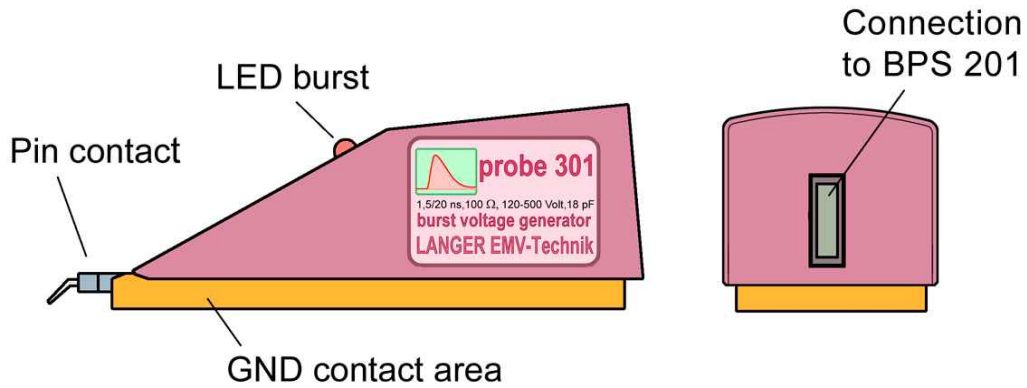


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LANGER
EMV-Technik

Design, view 1



Measurement set up

