



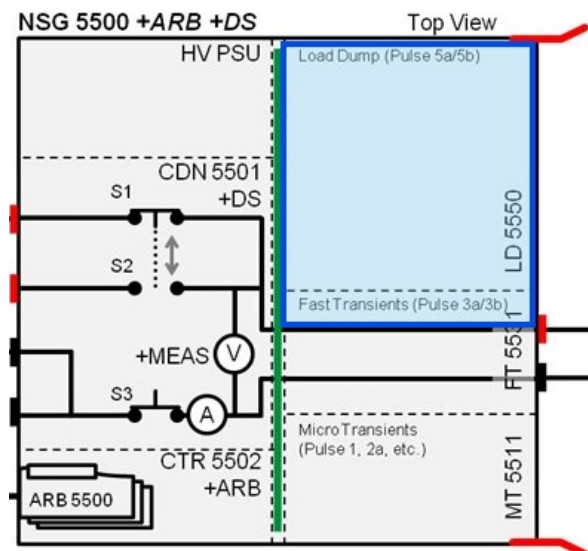
LD 5550 Load Dump Pulse Module

The LD 5550 (LD = Load Dump) is a plug-in high energy pulse generator module designed for the use with the NSG 5500 mainframe system. Its primary focus is to meet the specification requirements for ISO 16750-2 (before 2011 included in 7637-2) standard for pulses 5. Moreover it also meets many proprietary automotive manufacturer standards. In many cases, the specification of this generator exceeds those specified in the applicable standard.

When slotted into an NSG 5500 mainframe the LD 5550 module is fully programmable using the Autostar7 software, either via IEEE 488 or USB interface. Parameters such as amplitude, pulse width, pulse rise time, pulse repetition rate are all under program control. This allows flexible test patterns to be generated, which can facilitate rapid analysis of susceptibility limits of a device under test.

MAIN FEATURES

- Load Dump Pulses from 30 to 1500 ms pulse widths in 1 ms steps
- Capable of suppressed pulses without affecting the pulse width
- ISO 16750-2 verification annex compliant



Inside the NSG 5500 mainframe, the load dump transient pulses are superimposed on the applied DC supply voltage for the DUT. The pulse including the DC supply voltage is output at the +/- EUT terminal at the NSG 5500 front.

Specifications

Parameter	Value
Pulse amplitude	20 ... 200 V ± 5 % in 0.1 V steps
Clamping voltage	10 ... 100 ± 5%
Pulse impedance	0.5 ... 10 Ω in 0.25 Ω steps / 30.5 Ω / 40 Ω ± 10%
Pulse rise time	0.5 ... 10 ms 0.01 ms steps < 0.5 ms (± 10% + 50µs) ≥ 50V amplitude ± 10% < 50V amplitude ± 20%
Pulse duration time	20 ... 1500 ms +/-10% in 0.1 ms steps
Pulse repetition time	15 ... 600 s in 0.1 s steps *
Polarity	positive
Pulse modes	single, continuous, programmed: 1 ... 9'999

* Possible pulse repetition time depends on pulse energy

LD 5550 accessories

INA 5502-2	LD 5550 Load Dump 2 Ω verification load
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Other modules for the NSG 5500 and other generators

MT 5511	Micropulse module, ISO pulses 1, 2a and many more
JT 5510	Micropulse module, JASO pulses A-2, B-1, B-2, D-2, E
JT 5550	Load Dump module, JASO pulses A-1, D-1
+Arb option	Powerful arb wave generator, up to max. 8 channels
ARB 5500	Additional Arb channel for + Arb option
+DS option	Power Fail module for dip and drop testing, fall / rise time < 200ns
+MEAS option	Measuring unit for closed loop testing (ac ripple and magnetoc field)
PA 5740	4-quadrant amplifier, -60 ... +60 VDC, 10 A, up to 180 kHz
PA 5840 series	4-quadrant amplifier, -15 ... +60 VDC, up to 100 A, up to 150 kHz
AutoStar7	Windows remote control software