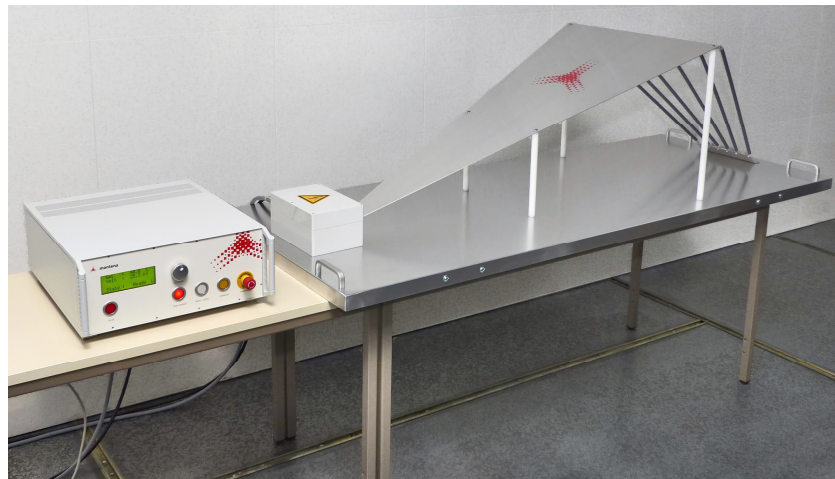


NEMP radiated susceptibility test setup, H = 50 cm

The test system NEMP050 is designed to assess the immunity of small pieces of equipment such as printed boards, small subsystems, etc. to an electromagnetic pulse in accordance with the MIL-STD 461 RS105 test procedure (NEMP: nuclear electromagnetic pulse).

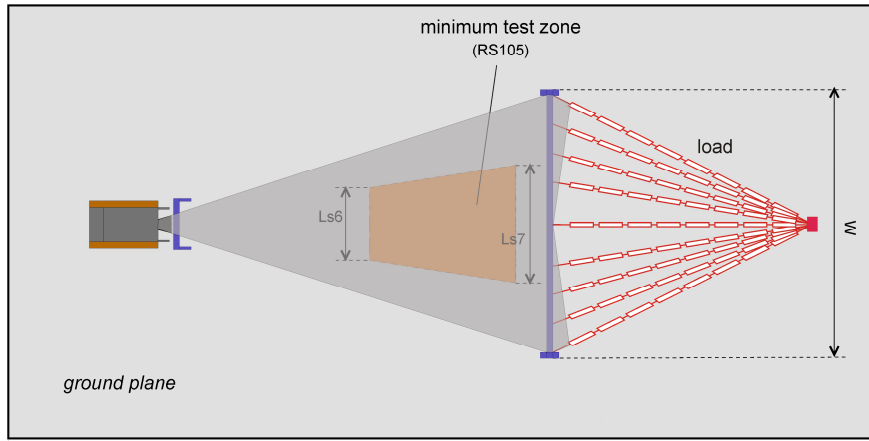
The system consists of a control unit and a line assembly including the high voltage unit directly connected to the radiating line. The high voltage unit and the antenna are fixed on a stable and solid frame which can be easily moved and placed on a table. The control unit is connected to the line structure through a high voltage cable and a control cable. The test system can be controlled by a computer through RS232 and USB interface. The minimum field under the line is 50 kV/m at full charging voltage. Even higher fields can be achieved for smaller objects placed close to the beginning of the line.



SPECIFICATIONS

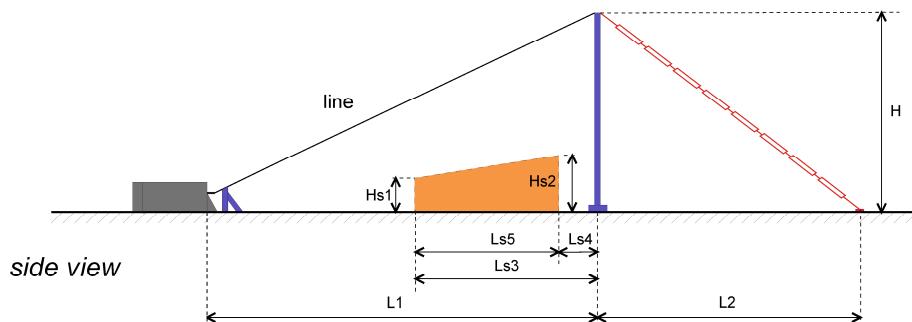
Type	NEMP050
Standard	MIL-STD-461 E / F / G, test procedure RS105
Dimensions of the test volume	see drawing on next page
Charging voltage	0.2 to 25 kV, positive only
Peak electric field	minimum 50 kV/m at full charging voltage
Rise time (10 – 90 %)	2.3 ns ± 0.5 ns
Pulse length on 100 ohm (50 – 50 %)	23 ns ± 5 ns
Line structure	bounded wave line / TEM mode
Maximum height of the EUT	17 cm (according to MIL-STD461 / RS105)
Connecting cables	2 (can be disconnected on the control unit side)
Power rating	85 - 264 Vac / 50 - 60 Hz / 150 VA
Control unit dimensions	56 x 19 x 45 cm (L x H x W)
Control unit weight	12 kg
Line assembly dimensions	200 x 55 x 80 cm (L x H x W)
Line assembly weight	36 kg

Appendix 1: dimensions and test zone



top view

W = 69 cm
L_{s6} = 17 cm
L_{s7} = 34.5 cm



side view

H = 50 cm
L₁ = 116 cm
L₂ = 56 cm
L_{s3} = 62 cm
L_{s4} = 0 cm
L_{s5} = 62 cm
H_{s1} = 8.5 cm
H_{s2} = 16.5 cm

Ordering information

TYPE	DESCRIPTION
NEMP050	Transportable NEMP test system according to MIL-STD 461 versions E, F and G / RS105, height of the radiation line 50 cm, for a test amplitude of up to 50 kV/m.

Related products / accessories

TYPE	DESCRIPTION
SGE3-5G	D-dot sensor to measure the electric field pulse
SB3G	Shielded enclosure, for the protection of the oscilloscope
PULSELab	Pulse measurement and processing software application, lifetime license for installation on one PC.

Sales Partner:



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