

APELC also offers a wide variety of high power RF solutions, such as ultra wide band systems, mesoband systems, and high power microwave systems.



APELC is the world leader in the development of compact Marx generators (our basis technology). We offer a very wide spectrum of Marx generators, from mJ, kV handheld models, and multi-kJ, MV bench-top systems.

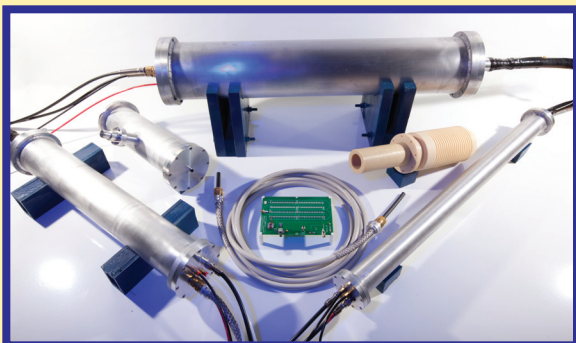
Our generators are unmatched in their performance and compactness.

In support of our Marx generators, we offer a wide variety of electronics and diagnostics, including:

- integrated power supplies
- high rep rate trigger generators
- integrated low rep rate trigger generators
- custom loads
- integrated high speed diagnostic probes

APELC also offers complete pulsed power systems including:

- 33 J/600 kV Marx generator system with a repetition rate of more than 250 Hz.
- 100 J/600 kV Marx generator system, with an integrated 10 kJ/s high voltage capacitor charger. This system has been demonstrated to operate with a repetition rate of 100 Hz.



APELC

APPLIED PHYSICAL ELECTRONICS, L.C.

Applied Physical Electronics, L.C. (APELC) is a small business located in the Hill Country of Central Texas, 20 miles west of Austin. APELC was formed in 1998, and has since grown to a multi-million dollar R&D company, specializing in pulse power related applications, including high power RF solutions designed for defeating electronic-based systems.

With 5 PhD's, 1 M.S.E.E., and 1 M.E. on the engineering team, as well as 12 highly experienced technicians and machinists, APELC brings more than 90 years of combined experience in pulse power related applications.

APELC has moved into a new, wholly-owned facility, offering 7,500 sq. ft. of lab and fabrication space; equipped with a high precision CNC machine shop, and high speed measurement systems, including 6 and 8 GHz real-time oscilloscopes, a 50 GHz sampling oscilloscope (w/TDR head) and an 18 GHz Vector Network Analyzer.

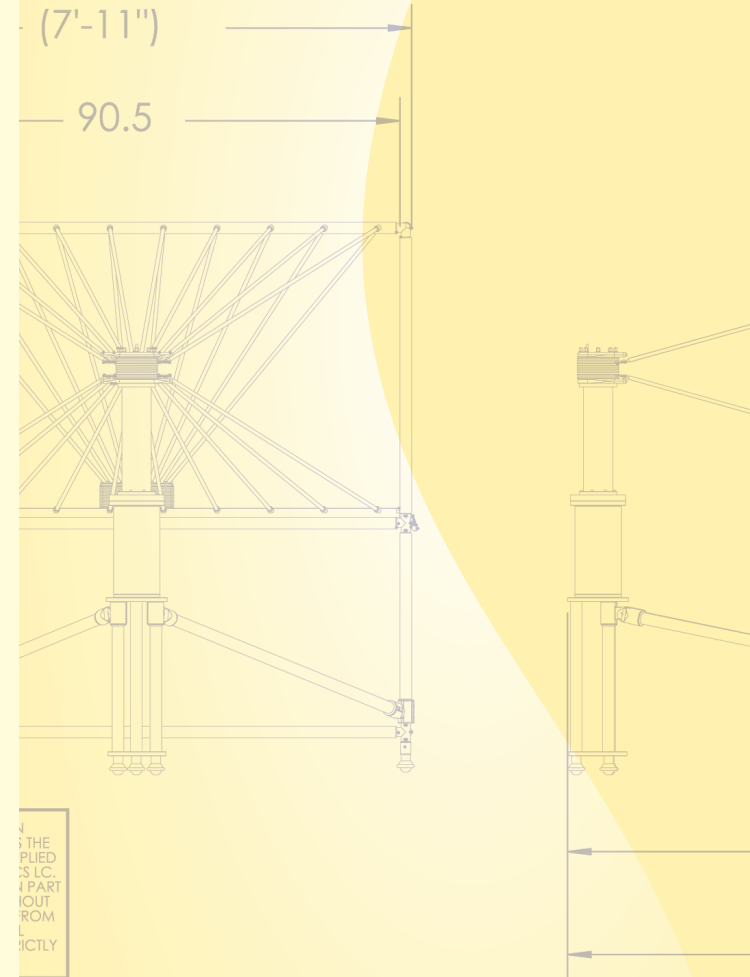


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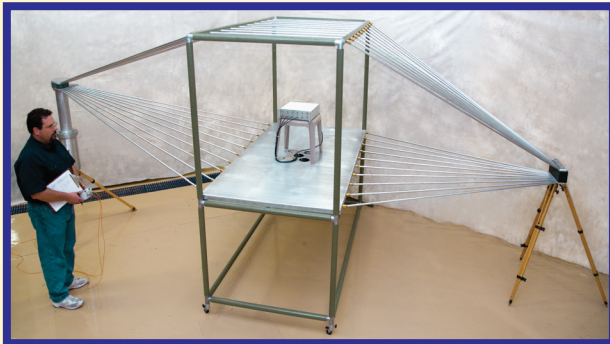
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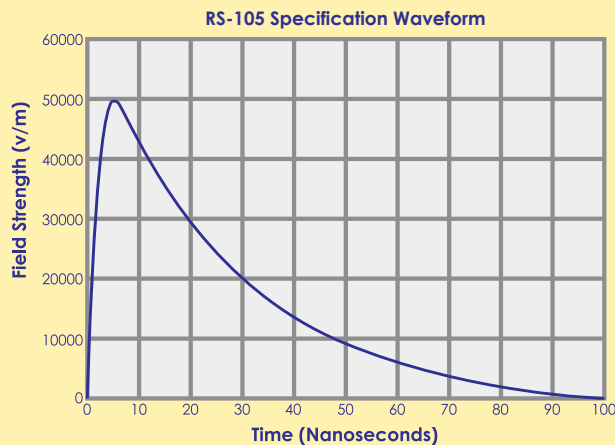
EMP SIMULATOR

EMP SIMULATOR MILITARY STANDARD 461E/F RS-105 TESTER



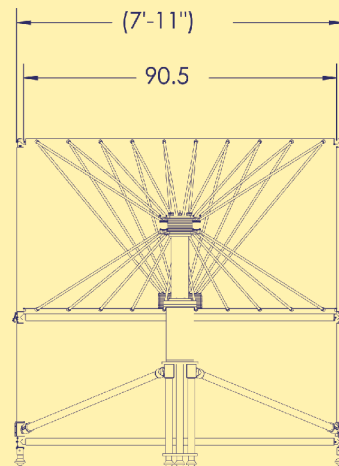
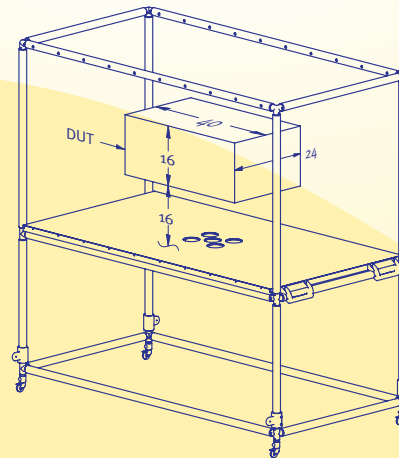
APELC proudly introduces a new solution for RS-105 testing as defined by MIL-STD 461E/F. In addition to meeting all of the test requirements, it is extremely portable, rugged, and easy to operate. Its intuitive setup and operation was designed around feedback from engineers and technicians currently testing under RS-105.

“Setup time of 1 to 2 hours... Operational results in minutes!”

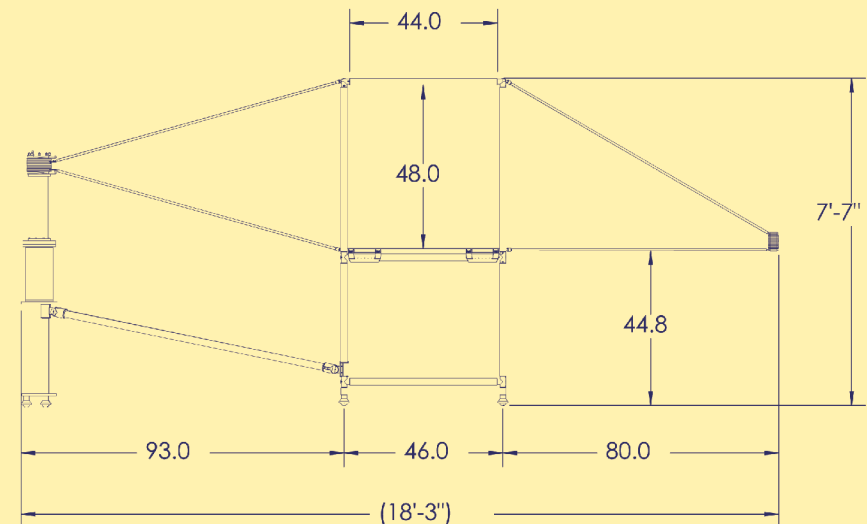


TEST-BED SPECIFICATIONS:

- Tests EUT sizes as large as 40"x24"x16" (L,W,H)
- Five, 4" ports available in ground plane for EUT cable-routing
- Solid state ancillary module for power and control
- Remote-controlled and battery-powered
- Single-switch polarity reversal
- Calibrated field-probes
- Time to assemble: 1-2 Hours
- System portability: two man portable



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EMP SIMULATOR SPECIFICATIONS

- Pulser controls: remote operation via fiber optic
- Pulse shape: double exponential, 25-ns FWHM
- Pulse risetime (10% - 90%): ~2 ns
- Peak E-field range: 10 to 60 kV/m



AVAILABLE OPTIONS:

- Digital storage oscilloscope (2 Gs/s, 500 MHz)
- Shielded enclosure for diagnostics
- Multiple B-dot and D-dot sensors
- Customizable wave shapes and amplitudes
- RS-05 source/front-end module