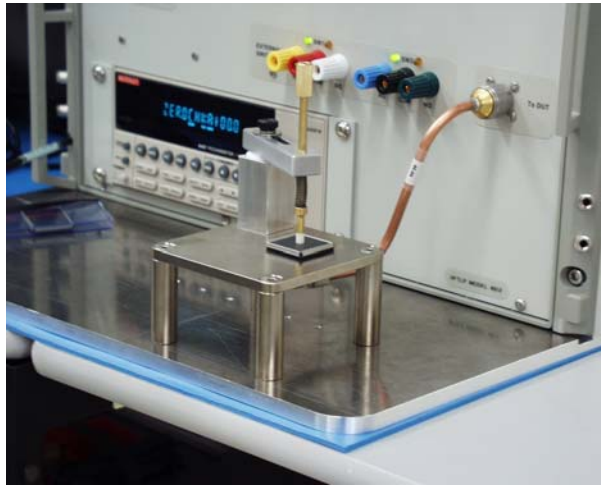


CC-VFTLP+ TEST FIXTURE

Model 40212

The Model 4012 Very Fast TLP Plus (VFTLP+) system required 5 years to create a system which can simulate the CDM test in the time domain. This very fast hardware captures the fastest parts of the high speed waveforms never quantitatively identified before. The instrumentation developed for this system provides accurate waveform measurements of circuits needed for CDM design. The VFTLP+ short pulse tester provides both a very fast pulse source and extremely fast response current and voltage sensors. In addition to the well-known I-V data used for analysis of electrical characteristics of ESD protection structures, the VFTLP+ system captures both voltage and current waveforms at the Device Under Test (DUT).



The CC-VFTLP+ Test Fixture is designed to be used with the model 4012 VFTLP+ system. It provides high pulse current measurement into one pin of IC's to simulate the CDM threat. Because the DUT is lying on the test fixture ground plane, the measured current pulse waveform into any pin will be an exact replica of a real CDM event. By placing a packaged DUT dead-bug style on the ground plane, any pin will have the same capacitance to ground as will occur during CDM testing. The leading edge of a 100 ps risetime rectangular pulse can be applied to any pin on the DUT. The resulting charge type current into the circuit under test is closely simulates the CDM test.

Leakage testing through the measurement connection allows the test pulse failure level to be constantly monitored in situ as the test pulse amplitude increases. High speed current measurements also identify the adding DUT capacitance and increased RC decay time as more circuits inside the package turn on. This test is designed to be used on packaged parts, after the silicon circuit has been designed with the VFTLP+ model 4012 system.

As well as being a pre-CDM test for precise failure level measurements, this VFTLP+ accessory provides new dynamic package capacitance information for the designer.



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VFTLP+ ACCESSORIES