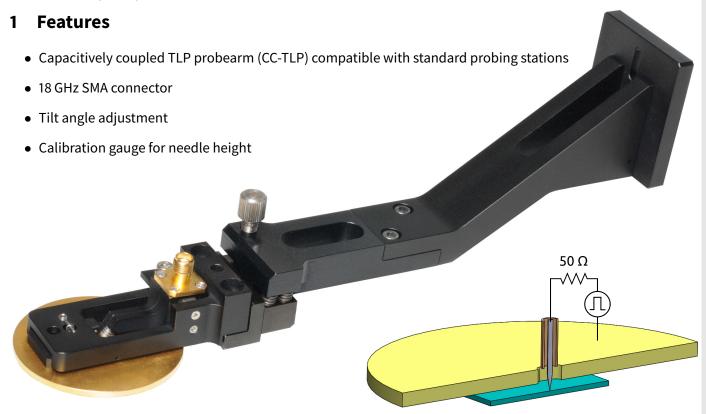


Advanced TLP/HMM/HBM Solutions



2 Description

The CC-TLP-50-A1 probearm is used for CC-TLP measurements in order to investigate the CDM performance of the device under test [1], [2], [3], [4], [5]. For that purpose the TLP pulse has to have a pulse width less than 1 ns and a rise time of about typical 100 ps. DUT voltage and current have to be measured using a vf-TLP setup.

Fig. 1 shows the comparison of a typical CC-TLP waveform generated with a 1 ns long pulse and CDM.

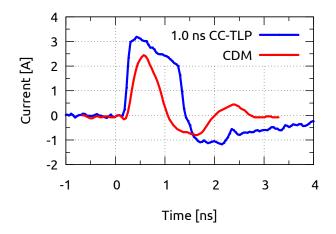


Figure 1: Comparison CC-TLP with CDM

References

- [1] H. Gieser, "Method and device for charging integrated circuits and structures with a pulsed heavy current", US6512362B1.
- [2] H. Wolf, H. Gieser, W. Stadler, and W. Wilkening, "Capacitively coupled transmission line pulsing cc-tlp, a traceable and reproducible stress method in the cdm-domain", in *Electrical Overstress/Electrostatic Discharge Symposium*, 2003. EOS/ESD '03., Sep. 2003, pp. 1–8.
- [3] H. Wolf, H. Gieser, K. Bock, A. Jahanzeb, C. Duvvury, and Y. Y. Lin, "Capacitive coupled tlp (cctlp) and the correlation with the cdm", in *EOS/ESD Symposium*, 2009 31st, Aug. 2009, pp. 1–8.
- [4] K. Esmark, R. Gaertner, S. Seidl, F. zur Nieden, H. Wolf, and H. Gieser, "Using cc-tlp to get a cdm robustness value", in 2015 37th Electrical Overstress/Electrostatic Discharge Symposium (EOS/ESD), Sep. 2015, pp. 1–10. DOI: 10 . 1109 / EOSESD.2015.7314799.
- [5] H. Gieser, H. Wolf, and F. Iberl, "Comparing arcfree capacitive coupled transmission line pulsing cc-tlp with standard cdm testing and cdm field failures", in *ESD-Forum*, Berlin, 2005, pp. 11–18.



Probe CC-TLP-50-A1

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3 Ordering Information

Pos.	Description	Part No.
01	Probe CC-TLP-50-A1 inlcuding	CC-TLP-50-A1
	calibration gauge	

General

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