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5P49 - Solid-State LTD Module Using SiC-MOSFETs

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Pulsed power generator based on LTD (linear transformer driver) has various advantages over those based on traditional pulse compression schemes. Efficiency and rise time are important issues for the performance of pulsed power generators, especially for industrial applications. A solid-state LTD module using silicon carbide (SiC) MOSFETs as switches has been designed and tested. Experiments have been carried out for evaluation of its output performance and total energy efficiency. The results have been compared with that obtained with LTD modules using silicon (Si) MOSFETs.

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