Design and Fabrication of Compact, Portable X-Pinch Driver Based on 2 LTD Bricks at the Idaho Accelerator Center

ROMAN SHAPOVALOV, RICK SPIELMAN, WENDLAND BEEZHOLD, Idaho Accelerator Center — The compact and portable x-pinch driver able to supply of about 200-kA peak current with about 150-ns rise time was proposed recently and currently under fabrication at the Idaho Accelerator Center. This driver will be able to produce a very unique x-ray radiation source, which could be used in many applications in physics, biology, and radiography. In this work we present the short-circuit test results of our compact and portable x-pinch driver.

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