

Fabrication of Thick Film Magnetic Cores for High Frequency Using LIGA Process

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Abstract

Fabrication of magnetic cores with narrow slits which have low eddy current loss for high frequency has been investigated. The magnetic cores with narrow slits of 1.5 μm to 5 μm in width were fabricated by the LIGA process which is composed of deep X-ray lithography using synchrotron radiation (SR) and Ni electroforming. Magnetic hysteresis loops and permeability of the magnetic cores with various slit widths and distances between slits were measured.

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