

Short-duration high-frequency quasi-sinusoidal magnetic field generator

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Abstract-

This paper presents a short-time high-frequency sinusoidal magnetic field generator to study the frequency response of a magnetic sensor. The prototype is able to generate magnetic fields up to 35 mT at a frequency of 1 MHz. Higher and lower frequencies can be easily reached changing the value of a capacitor.

Index Terms- Field-programmable gate arrays (FPGAs), frequency measurement, frequency response, magnetic field measurement, magnetic materials, magneto optic effect

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