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Development of High Temperature, High Efficiency Magnetic Materials for Power Conversion

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Abstract

We propose to transition new high temperature, high efficiency magnetic materials to our State of PA corporate sponsor, Magnetics, A Division of Spang and Company. The ability to tailor the microstructures of magnetic materials on a nanoscale has continued to have far reaching implications for optimizing properties and performance. The development of magnetic materials for power electronic passive components is crucial to the miniaturization and thermal management of future commercial power electronic systems.