



The Multinational Power Electronics Association

PSMA Magnetics Committee Special Projects Ad Hoc Meeting

October 18TH 2023

Ed Herbert, George Slama, Matt Wilkowski
Committee Chairs



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PSMA Magnetics Committee Special Projects Ad Hoc Meeting Agenda October 18, 2023

- Support for Packaging and Manufacturing Committee
 - Power Technology Report on Embedded and Integrated Magnetics
- Special Projects
 - Core Loss Database
 - Need to rank and identify champion
 - Electrical parameters of magnetic materials
 - Steinmetz Like Approximation
 - Electrical parameters of magnetic materials
 - Propagation in magnetic materials
 - Current driven core loss testing
 - Spice model



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- Background
 - Why is the report needed?
 - The purpose of the Technology report is to provide and up to date reference for member companies on the present state of integrated and embedded magnetics. The report will loosely follow the format of the previous 3 Technology Reports published by the PSMA Packaging and Manufacturing committee. Chapter 4 of the 2018 report focused on embedded magnetics. There is a lot that has happened in that area since 2018. The other area that has exploded is integrated magnetics. The report would focus on those two topics in greater depth than the previous one. The intend is the report would look at what's available today, What is in the pipeline for the next 2-3 years. What the main roadblocks are and a potential roadmap for the future.
 - Industry trends? Yes, as part of what is mentioned above
 - Correlation to IEEE Heterogeneous Integration Roadmap (HIR)? It can be used as a resource to help guide the research for the report.
- What is required from the PSMA Magnetics Committee?
 - Two members to serve on the oversight committee.
 - To help develop the RFP including the statement of work.
 - Review vendor proposals and pick a vendor.
 - Attend monthly progress reviews with the vendor.
 - Review sections as they are completed.
- Is there a baseline proposal document that we can reference?
 - No, the RFP will be written by Brian Narveson with input from the oversight committee.

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- Attendance (11)
 - John Horzepa
 - Joe Horzepa
 - Mike Arasim
 - Doug Eaton
 - Ed Herbert
 - Alfonso Martinez
 - George Slama
 - Rodney Rogers
 - Ranajit Sai
 - Chuck Wild
 - Matt Wilkowski



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Thank You

