

# **MIL-PRF-19500 Appendix J: Inclusion of Plastic Encapsulated Discrete Semiconductor (PEDs) Devices for Military Applications**

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This presentation covers the latest status on the incorporation of plastic encapsulated discrete semiconductor devices into MIL-PRF-19500 appendix J for military applications that will be qualified and screened to JANTX and JANTXV requirements. The purpose of this effort is to address user community needs to provide plastic encapsulated discrete semiconductors from Defense Logistics Agency Land and Maritime qualified suppliers. Having MIL-PRF-19500 qualified plastic encapsulated discrete semiconductor devices will provide advantages to the government user community such as controlled design changes, and approved screening and qualification processes as per the military specification.

A review of the screening and qualification flow for MIL-PRF-19500 Appendix J plastic encapsulated discrete semiconductors will be discussed and compared to the hermetic screening and qualification flow.

Future plans of the 19500 appendix J plastic encapsulated task group will be discussed.