



DEFENSE LOGISTICS AGENCY
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September 10, 2014

DLA Land and Maritime–VAI (Mr. Antonelli/ (DSN 850) 614-692-0576/ra)

MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Engineering Practice Study (EPS) for MIL-DTL-24308, insert dielectric material, Project number 5935-2014-121.

The purpose of this EPS is to obtain input from military/industry to determine if Thermoplastic dielectric material containing 15% glass filled polyester is acceptable for use in MIL-DTL-24308/23 and /24 printed circuit board (PCB) connectors. Currently the requirement is 30% glass filled polyester. Based on the results of this EPS this material will either be incorporated as a suitable dielectric material for MIL-DTL-24308 PCB connectors or determined to be unacceptable for use in this connector system.

Please provide this office your response or comments by (30 days from the date of this Memorandum).

If there are any questions, please contact Mr. Ralph Antonelli, phone DSN 850-0576/commercial 614-692-0576, E-mail ralph.antonelli@dla.mil, DLA Land and Maritime-VAI, P.O. Box 3990, Columbus, OH 43218-3990.

Sincerely,

/ **SIGNED** /

ABDONASSER M. ABDOUNI
Chief,
Interconnection Branch

ENGINEERING PRACTICE STUDY

MIL-DTL-24308 Printed Circuit Board Connectors Material

PROJECT NUMBER: 5935-2014-121

10 September 2014

**Prepared by:
Ralph Antonelli
Project officer (Rectangular connectors)
DLA Land and Maritime-VAI**

ENGINEERING PRACTICE STUDY

OBJECTIVE The purpose of this EPS is to determine if thermoplastic material(s) with 15% glass filled polyester is acceptable material for printed circuit board connectors covered under MIL-DTL-24308 type connectors.

BACKGROUND This EPS came about as a request to incorporate a material that would facilitate a more efficient manufacturing process for PCB connectors. Currently the requirement is 30% glass filled polyester.

Methodology: Obtain input from military/industry to determine if Thermoplastic dielectric material containing 15% glass filled polyester is acceptable for use in MIL-DTL-24308/23 and /24 printed circuit board (PCB) connectors. Based on the results of this EPS this material will either be incorporated as a suitable dielectric material for MIL-DTL-24308 PCB connectors or determined to be unacceptable for use in this connector system.

Provide any comments, concerns or experience on the use thermoplastic material with 15% glass filled polyester essential to form, fit and function of MIL-DTL-24308 printed circuit board connector application.

If there are any questions, please contact Mr. Ralph Antonelli, phone DSN 850-0576/commercial 614-692-0576, E-mail ralph.antonelli@dla.mil, DLA Land and Maritime-VAI, P.O. Box 3990, Columbus, OH 43218-3990.