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IN REPLY
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June 2, 2008

MEMORANDUM FOR MILITARY/INDUSTRY DISTRIBUTION

SUBJECT: Dated Engineering Practices Study Concerning possible deletion of "L" failure rate from
[MIL-PRF-39006](#).
Project number 5910-2008-016

The subject engineering practices study is dated 2 June 2008. If you have any questions please contact the project officer Ken Bernier by email at Kenneth.Bernier@dla.mil , or by phone at 614-692-0563.

Michael A. Radecki
Chief
Electronics Components Team



ENGINEERING PRACTICE STUDY
TITLE: PROPOSED DELETION OF "L" FAILURE RATE FOR [MIL-PRF-39006](#)
PROJECT NUMBER 5910-2008-016

2 June 2008
(approval date)

STUDY PROJECT (SEE ENCLOSED)

FINAL REPORT

Study conducted by Ken Bernier

Prepared by:

Ken Bernier
DSCC-VAT

Approved by:

Michael Radecki
Chief
Electronic Component Team

Objective

The purpose of this study was to gather information to determine industry interest in revising [MIL-PRF-39006](#) for the purpose of deleting the “L” failure rate capacitors from all [MIL-PRF-39006](#) documents.

Background

There are currently two slash sheets 9 and 21 in [MIL-PRF-39006](#) that list “L” failure rate capacitors. This study was conducted to determine if there is a need to maintain these “L” failure rate capacitors

The following Comments were recieved

The “L” failure rate should be kept in [MIL-PRF-39006](#), as well as [MIL-PRF-39006/09](#) and [MIL-PRF-39006/21](#). CLR65 and CLR69 styles are mature silver case wet tantalum capacitors. These capacitor styles have been used in various applications since the early 1970's., and were inactivated for new designs in 1981. Although the “L” failure rate was also inactivated for new designs in 1976; we continue to get orders for mature applications.

The deletion of the “L” failure rate would result in several non-productive actions. Open and ongoing orders would have to be changed. Mature designs would need to be reviewed and part lists updated. Engineering time at both users and suppliers would be utilized to update mature historical designs for no reason. The “L” failure rate parts would most likely be replaced by the “M” failure rate part numbers from the same capacitor styles, which are also not recommended for any new designs.

Results: The responses received indicate that the “L” failure rate capacitors are still being used as replacement parts in older designed circuits.

Conclusion

There are ongoing orders for “L” failure rate of the CLR65 and CLR69 styles of wet tantalum capacitors. It is recommended that the “L” failures **not be** deleted at this time.

Recommendations

Since there are ongoing orders for the “L” failure rate capacitors in [MIL-PRF-39006](#), this is not the time to delete this failure rate from the documents.