

The following table summarizes changes for **MIL-PRF-38534** revision J.

REF No.	Paragraph	Change	Source	Reason	Page No.
1	1.2	Delete "Appendix D is not currently being used." and replace with "Appendix D defines generic performance verification for non-hermetic device technologies."	DLA Land and Maritime	Correction	2
2	2.2.1, A.2.2.1, C.2.2.1, D.2.2.1, E.2.2.1, F.2.2.1, and G.2.2.1	Change URL from <a href="https://assist.daps.dla.mil/quicksearch/">https://assist.daps.dla.mil/quicksearch/</a> to <a href="http://quicksearch.dla.mil">http://quicksearch.dla.mil</a>	DLA Land and Maritime	To correct URL for ASSIST	Several
3	2.2.2	Delete reference to Handbook H4/H8 and associated footnote.	DLA Land and Maritime	Not needed. CAGE codes should be looked up on website in 3.9.5.e	3
4	2.2.2	Delete "JESD22-A114 – Electrostatic Discharge (ESD) Sensitivity Testing Human Body Model (HBM)"	DLA Land and Maritime	JESD22-114 is no longer referenced in the specification.	3
5	2.2.2	Delete reference to NAVSHIPS 0967-190-4010 and associated footnote.	DLA Land and Maritime	No longer used.	3
6	2.2.2	Change URL from <a href="https://assist.daps.dla.mil/quicksearch/">https://assist.daps.dla.mil/quicksearch/</a> to <a href="http://quicksearch.dla.mil">http://quicksearch.dla.mil</a>	DLA Land and Maritime	To correct URL for ASSIST	3
7	2.3	Add "Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract."	DLA Land and Maritime	Per requirements of MIL-STD-961	3
8	2.2.1, 2.2.2, A.2.2.1, A.2.3, C.2.2.1, C.2.3, D.2.2.1, D.2.3, E.2.2.1, F.2.2.1, G.2.2.1, G.2.3	Remove postal address since internet source is available	DLA Land and Maritime	Per requirements of MIL-STD-961	Several
9	3.9.5 e.	Change URL from <a href="https://www.bpn.gov/bin/cs/begin_search.asp">https://www.bpn.gov/bin/cs/begin_search.asp</a> to <a href="https://www.logisticsinformationservice.dla.mil/BINCS/begin_search.aspx">https://www.logisticsinformationservice.dla.mil/BINCS/begin_search.aspx</a>	DLA Land and Maritime	To correct URL for BINCS	8
10	3.9.5.5	Delete "The manufacturer's designating symbol or CAGE code number shall be as listed on NAVSHIPS 0967-190-4010 or cataloging Handbook H4/H8. NAVSHIPS 0967-190-4010 and Handbook H4/H8 are no longer being maintained. Manufacturing symbols found in NAVSHIPS 0967-190-4010 should no longer be used for current product. All current product should use the current manufacturer's CAGE code "	DLA Land and Maritime	NAVSHIPS 0967-190-4010 and H4/H8 are no longer used.	9

11	3.9.5.8.2	See final draft of MIL-PRF-38534 Revision J for all changes to this paragraph.	DLA and JEDEC TG	To include changes from DLA and JEDEC TG.	10
12	3.11	Change paragraph 3.11 from "3.11 <u>Recycled, recovered, or environmentally preferable materials</u> . Recycled, recovered, or environmentally preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs." to "3.11 <u>Recycled, recovered, environmentally preferable, or biobased materials</u> . Recycled, recovered, environmentally preferable or biobased materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.	Change per MIL-STD-961	To add requirement for biobased material in accordance with MIL-STD-961.	12
13	6.10	Delete second sentence "Appendix D is new in its entirety and is annotated with an asterisk at the title of the appendix only." and replace with " Appendix G is rewritten in its entirety and is annotated with an asterisk at the title of the appendix only."	DLA Land and Maritime	Correction	20
14	A.1.3, C.1.2, D.1.2, E.1.2, and F.1.2	Add paragraph and page number headings. (See initial draft)	DLA Land and Maritime	Clarification	Several
15	C.2.3, D.2.2.2, and G.2.3	Change JEDEC address from "the Electronics Industries, 2500 Wilson Boulevard, Arlington VA 22201-3834" to "JEDEC Office, 3103 North 10 <sup>th</sup> Street, Suite 240-S, Arlington VA 22201-2107"	DLA Land and Maritime	Update JEDEC address	Several
16	C.3.3.4.3 NOTE:	Delete in its' entirety, and replace with "Final electrical tests that satisfy end-point electrical test requirements that are specified in preceding test methods do not need to be repeated."	DLA Land and Maritime	Clarification	38
17	C.6.3.3.4	See final draft of MIL-PRF-38534 Revision J for all changes to this paragraph.	JEDEC TG	To include changes received from JEDEC TG	59
18	Table C-Xc	Separate "Mechanical shock" and "Constant acceleration" into two rows.	DLA Land and Maritime	Clarification	61
19	Table C-Xc	For subgroup 1: Add footnote 4/ reference to "Mechanical Shock" and "Constant acceleration" tests in conditions column for PI.	DLA Land and Maritime	Clarification	61
20	Table C-Xc	For subgroup 1 Random vibration test. Change footnote reference from "3/" to "5/".	DLA Land and Maritime	Correction	61

21	Table C-Xc	For subgroup 1 second PIND test. Change reference footnote from "4/" to "3/".	DLA Land and Maritime	Correction	61
22	Table C-Xc	In footnotes below table: renumber the current footnote "3/" to be footnote "5/" and renumber the current footnote "4/" to be footnote "3/".	DLA Land and Maritime	Correction	61
23	Table C-Xc	In footnotes below table add "4/ Either mechanical shock or constant acceleration can be performed for periodic inspection (PI)."	DLA Land and Maritime	Clarification	61
24	Table C-Xc	Update subgroup 5 for ESD testing. See final draft of MIL-PRF-38534.	DLA and JEDEC TG	To include proposal from JEDEC TG.	61
25	Table C-Xc	Footnotes in table: Renumber footnote "5/" to "6/". Renumber footnote "6/" to "7/". Renumber footnote "7/" to "8/".	DLA Land and Maritime	Correction	61
26	Table C-Xc	In footnotes below table: Renumber footnote "5/" to "6/". Renumber footnote "6/" to "7/". Renumber footnote "7/" to "8/".	DLA Land and Maritime	Correction	61
27	Table C-Xb-1	In third row down change "0.0001 < X ≤ 0.003" to "0.001 < X ≤ 0.003"	DLA Land and Maritime	Correction	63
28	C.6.4.4.4	Change second sentence from "This test is performed one time for Class" to "This test is performed one time for Class H and at 26 week intervals for Class K unless a change in material or plating is made." This only an editorial correction.	DLA Land and Maritime	Editorial correction from last revision	64
29	C.7.4	Change ".....performance of group C testing as specified herein." to ".....performance of group C testing to QML requirements as specified herein."	DLA Land and Maritime	Clarification	65
30	C.7.5.1	Change from ".....shall have been certified by the qualifying activity in accordance with 4.5.1.2 herein." to ".....shall have been certified by the qualifying activity."	DLA Land and Maritime	Clarification	66
31	C.7.5.1	Add the following sentence to the end of paragraph "Additional processes and materials may be added to the baseline flow using E.5 (major change) herein, with the qualifying activity approval."	DLA Land and Maritime	Clarification	66
32	D.2.3	Add JEDEC PUBLICATION " JEP142 – Obtaining and Accepting Material for Use in Hybrid/MCM Products."	DLA Land and Maritime	To add missing reference to section 2	70

33	D.2.3	Change URL from: <a href="http://www.geia.org">http://www.geia.org</a> to <a href="http://www.techamerica.org">http://www.techamerica.org</a>	DLA Land and Maritime	To correct URL for Techamerica	70
34	D.2.3	Change URL from: <a href="http://www.ipc.org">http://www.ipc.org</a> to <a href="http://www.jedec.org">http://www.jedec.org</a>	DLA Land and Maritime	To correct URL from IPC to JEDEC	70
35	D.6.9	Correct “.....1030 of MIL-STD-883 for devices and method.....” to “.....,1030 of MIL-STD-883 for open devices and method.....”	DLA Land and Maritime	Correction	86
36	D.6.9.5.3.1	In last sentence after Example 3 correct sentence from “.....non-screenable defects, or non-reworkable, the shall will be rejected.” to “.....non-screenable defects, or non-reworkable, the device shall be rejected.”	DLA Land and Maritime	Correction	87
37	Table D-IX	Remove dotted line between constant acceleration and mechanical shock.	DLA Land and Maritime	Clarification	90
38	Table D-IX	Add new footnote 2/ to read “Either constant acceleration or mechanical shock is required for cavity devices, neither test is required for non-cavity devices.”	DLA Land and Maritime	Clarification	90
39	Table D-IX	Renumber current footnote 2/ to footnote 3/.	DLA Land and Maritime	Correction	90
40	Table D-IX	Change renumbered footnote 3/ from “Required for cavity devices.” to “Not required for non-cavity devices.”	DLA Land and Maritime	Clarification	90
41	Table D-IX	Renumber current footnote 3/ to footnote 4/	DLA Land and Maritime	Correction	90
42	Table D-X	Removed dotted line between constant acceleration and mechanical shock.	DLA Land and Maritime	Clarification	91
43	Table D-X	Change footnote 3/ from “Manufacturer’s option” to “Neither constant acceleration or mechanical shock is required, but can performed at manufacturer’s option.”	DLA Land and Maritime	Clarification. Not required in revision H and not required in revision J.	91
44	Table D-XIII	Third row under heading correct “0.0001” to “0.001”	DLA Land and Maritime	Correction	97
45	Table D-XIX	In row for “Steady-state life test” correct reference paragraph from “D..6.4.11” to “D.8.6.4.11”	DLA Land and Maritime	Correction	104
46	D.8.5	Replace paragraph D.8.5 with proposal from JEDEC TG. See final draft of MIL-PRF-38534 Revision J.	JEDEC TG	To include proposal from JEDEC TG.	105
47	E.5	Add header “MAJOR CHANGE”	DLA Land and Maritime	Correction	117

48	E.5.1	Add paragraph E.5.1 to read " <u>Description of major changes</u> . This section describes how to handle major changes to devices or processes."	DLA Land and Maritime	Correction	117
49	E.5.1.1	Re-number current paragraph "E.5.1" to E.5.1.1"	DLA Land and Maritime	Correction	117
50	E.5.2	Change first sentence from: ".....requirements including performance, quality, reliability, or interchangeability will be....." to "requirements including performance, quality, reliability, radiation hardness assurance (when specified), or interchangeability will be....."	DLA Land and Maritime	Clarification. Add Radiation Hardness Assurance to Class I major changes.	118
51	E.5.2.bb	Delete "Change affecting ESD level." and replace with "Change affecting ESD level (e.g. 2N2484 versus 2N2905)."	JEDEC TG	Update requirements for ESD.	119
52	E.5.2.bb	Add the following note: "NOTE: Same element part number from a different manufacturer is not considered a major change, except for Class K. Change of die manufacturer is a major change for Class K as stated in item y. of this paragraph."	JEDEC TG	Update requirements for ESD.	118
53	Table E-I bb	For PI column under "Recommended test subgroups" Change "N/A" to "C5"	JEDEC TG	To add subgroup C5 as proposed by JEDEC TG	124
54	Appendix G	Delete in its' entirety and replace with proposal from JEDEC TG and DLA.	JEDEC TG and DLA	To define requirements for qualifying radiation hardness assured hybrids	127
55	Last Page	Remove "TD" as a review activity for the Navy	DLA Land and Maritime	Correction Navy TD no longer exists and is superseded by Navy "AS"	151
56	Last Page	Change <a href="https://assist.daps.dla.mil">https://assist.daps.dla.mil</a> to <a href="https://assist.dla.mil">https://assist.dla.mil</a>	DLA Land and Maritime	To correct URL for ASSIST	151