

NOT MEASUREMENT SENSITIVE

MIL-E-55585F(CR)
21 September 1988
 SUPERSEDING
 MIL-E-55585E(CR)
 31 May 1984

MILITARY SPECIFICATION

ELECTRONICS EQUIPMENT AND PARTS,
PACKAGING OF

This specification is approved for use by Communications-Electronics Command, Department of the Army, and is available for use by all Departments and Agencies of the Department of Defense.

1. SCOPE

1.1 Scope. This specification covers the packing and marking requirements for use in acquisition documents, contracts, or orders for electronics equipment and parts containing packaging requirement codes, special packaging instructions and specifications.

2. APPLICABLE DOCUMENTS

2.1 Government documents.

2.1.1 Specifications and standards. The following specifications and standards form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those listed in the issue of the Department of Defense Index of Specifications and Standards (DODISS) and supplement thereto, cited in the solicitation (see 6.1).

SPECIFICATIONS

FEDERAL

- | | |
|---------|--|
| L-P-378 | - Plastic Sheet and Strip, Thin Gauge, Polyolefin |
| NN-P-71 | - Pallets, Material Handling, Wood, Stringer Construction, 2-Way and 4-Way (Partial) |

Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: Commander, U.S. Army Communications-Electronics Command, ATTN: AMSEL-ED-TO, Fort Monmouth, New Jersey 07703-9990, by using the self-addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter.

AMSC N/A

AREA PACK

DISTRIBUTION STATEMENT A. Approved for public release; distribution is unlimited.

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QQ-S-781	- Strapping, Steel, and Seals
PPP-B-601	- Boxes, Wood, Cleated-Plywood
PPP-B-621	- Boxes, Wood, Nailed and Lock-Corner
PPP-B-636	- Boxes, Shipping, Fiberboard
PPP-B-640	- Boxes, Fiberboard, Corrugated, Triple-Wall
PPP-S-760	- Strapping, Nonmetallic (And Connectors)
PPP-T-97	- Tape, Pressure-Sensitive Adhesive, Filament Reinforced

STANDARDS

FEDERAL

FED-STD-101	- Test Procedures for Packaging Materials
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MILITARY

MIL-STD-105	- Sampling Procedures and Tables for Inspection by Attributes
MIL-STD-129	- Marking for Shipment and Storage
MIL-STD-147	- Palletized Unit Loads

(Unless otherwise indicated, copies of federal and military specifications and standards are available from the Naval Publications and Forms Center, ATTN: NPODS, 5801 Tabor Avenue, Philadelphia, PA 19120-5099).

2.1.2 Other Government publications. The following government publication forms a part of this document to the extent specified herein. Unless otherwise specified, the issues are those cited in the solicitation.

CODE OF FEDERAL REGULATIONS (CFR)

CFR Title 49	- Transportation
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(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.)

2.2 Order of precedence. In the event of a conflict between the text of this document and the references cited herein the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 Preservation. Unless otherwise specified, preservation shall be level A, B, or C as specified by the packaging requirement codes, special packaging instructions, individual item specifications, or standards.

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3.1.1 Intermediate packing. Level A, B, and C unit packs shall be packed in intermediate containers as specified by the packaging requirement codes, special packaging instructions, specifications, or standards, as applicable. When the quantity to be shipped to any one destination is less than the established intermediate quantity, the total quantity shall be placed in the intermediate container specified in the contract or order. When the quantity to be shipped to any one destination is greater than the established quantity specified, but not equally divisible by this quantity, the residual quantity shall be placed in the intermediate container specified in the contract or order.

3.2 Packing. Packing shall be level A, B, or C, as specified (see 6.1c). Shipping containers for level A and B shall be capable of stacking and supporting superimposed loads during shipment and storage without damaging the container(s) or its contents when tested in accordance with Methods 5016 and 5017 of FED-STD-101.

3.2.1 Level A. A multiple quantity of items, unit or intermediate packed as specified in 3.1 and bearing the same stock number, shall be packed within a close-fitting box conforming to PPP-B-601, overseas type, or PPP-B-621, class 2, style 4. When the gross weight exceeds 200 pounds, or the container length and width is 48 by 24 inches or more and the weight exceeds 100 pounds, 3 by 4 inch skids, laid flat, shall be applied in accordance with the requirements of the container specification. Closure and strapping shall be in accordance with the applicable container specification or appendix thereto except that metal strapping shall conform to QQ-S-781, type I, finish A. When the quantity of a stock numbered item being shipped to a single destination comprises a shipping container volume of less than one cubic foot, packing shall be as specified for level B. When the unit container is a wood box, no further packing is required.

3.2.1.1 Unitization. Palletization shall be required when: containers specified in 3.2.1 do not require skids; quantities per destination exceed either a total of 250 pounds (excluding the pallet) or a volume of 20 cubic feet; and the container size permits use of one of the pallet patterns of MIL-STD-147. A quantity of containers, packed as specified in 3.2.1 except that container strapping may be omitted, shall be placed on a pallet, load type I conforming to MIL-STD-147. The pallet shall conform to NN-P-71, type IV, group I or II woods. The load shall be "bonded" to the pallet by strapping conforming to QQ-S-781, type I, finish A, or shrink film conforming to L-P-378, type IV. Stretch wrap in accordance with MIL-STD-147 is authorized for shipments within the Continental United States and for containerized shipments.

3.2.2 Level B. A multiple quantity of items, unit or intermediate packed as specified in 3.1 and bearing the same stock number, shall be packed within a close-fitting box conforming to PPP-B-640, class 2, style E, or PPP-B-636, type CF, class weather-resistant. The gross weight of boxes conforming to PPP-B-640 shall not exceed 250 pounds. Closure shall be in accordance with the appendix of the applicable box specification. Reinforcing shall be by pressure-sensitive filament tape banding or nonmetallic strapping conforming

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to PPP-T-97 and PPP-S-760, respectively; selection of the material and application shall be in accordance with the appendix of the applicable box specification. When the gross weight exceeds 200 pounds, or the container length and width is 48 by 24 inches or more and the weight exceeds 100 pounds, containers will be pallet-mounted on pallets conforming to NN-P-71, group I or II woods. The load shall be "bonded" to the pallet by strapping conforming to QQ-S-781, type I, finish A, or shrink film conforming to L-P-378, type IV. When a single unit is shipped to a single destination, no packing is required; the unit container shall serve as the shipping container. Reinforcing shall be as specified above. When the unit container is a wood box, no further packing is required.

3.2.2.1 Unitization. When the palletization requirements specified in 3.2.1.1 are met, a quantity of items, unit or intermediate packed as specified in 3.1 and bearing the same stock number, shall be palletized as specified in 3.2.1.1.

3.2.3 Level C. A multiple quantity of unit or intermediate packs, bearing the same stock number, shall be placed in close-fitting containers conforming to Federal or Military specifications. Unit and intermediate packs that meet all common carrier rules and provide safe delivery to destination need not be packed in shipping containers.

3.2.3.1 Unitization. Palletization shall be required when quantities per destination exceed either a total of 250 pounds (excluding the pallet) or a volume of 20 cubic feet. A quantity of items, packed for shipment, shall be placed on pallets, standard size 40 by 48 inches, conforming to Federal or Military specifications. The load shall be "bonded" to the pallet by any means that will insure safe delivery to destination.

3.3 Marking.

3.3.1 Military. In addition to any special marking required by the contract or order, marking for level A, B, and C shall be in accordance with the requirements of MIL-STD-129 and, when applicable, as specified in 3.3.1.1.

3.3.1.1 Special marking requirements. When required by the contract or order, containers shall be marked as specified.

3.3.1.1.1 Sensitive electronic devices. Unit, intermediate, and exterior packs containing sensitive electronic devices susceptible to damage from environmental field forces shall be marked in accordance with MIL-STD-129.

3.4 Hazardous materials. In addition to the requirements of this specification, hazardous materials will be packaged, marked, and labeled according to the hazardous materials regulations of the Department of Transportation, Title 49 Code of Federal Regulations, Parts 100-199.

3.5 Workmanship. The quality of workmanship for level A, B, and C shall be such as to permit acceptance of the completed packing requirements in accordance with the inspection provisions specified in section 4.

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4. QUALITY ASSURANCE PROVISIONS

4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements (examinations and tests) as specified herein. Except as otherwise specified in the contract or purchase order, the contractor may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in this specification where such inspections are deemed necessary to ensure supplies and services conform to prescribed requirements.

4.1.1 Responsibility for compliance. All items shall meet all requirements of section 3. The inspection set forth in this specification shall become a part of the contractor's overall inspection system or quality program. The absence of any inspection requirements in the specification shall not relieve the contractor of the responsibility of ensuring that all products or supplies submitted to the Government for acceptance comply with all requirements of the contract. Sampling inspection, as part of manufacturing operations, is an acceptable practice to ascertain conformance to requirements; however, this does not authorize submission of known defective material, either indicated or actual, nor does it commit the Government to accept defective material.

4.2 Packing inspection. Inspection of packing and the marking for shipment and storage shall consist of the examinations specified in table I, "Packing inspection provisions." Lot formation shall consist of all packs made of the same materials during an identifiable period and submitted at one time for acceptance. Sampling procedures shall be in accordance with MIL-STD-105, using a single sampling plan.

TABLE I. Packing inspection provisions.

NO.	CHARACTERISTIC	METHOD OF INSPECTION
101	Intermediate container not as specified	Visual
102	Improper closure of intermediate container	Visual
103	Shipping containers not in accordance with specification	Visual
104	Excessive cube	Visual
105	Improper blocking and bracing	Visual
106	Closure not in accordance with specification	Visual
107	Weight and size exceed container limitations	Weight and Measure
108	Strapping not in accordance with specification, incorrectly applied, omitted	Visual
109	Marking omitted, incorrect, or illegible	Visual

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5. PACKAGING

5.1 Packaging. Not applicable to this specification.

6. NOTES

(This section contains information of a general or explanatory nature that may be helpful, but is not mandatory.)

6.1 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification.
- b. Issue of DODISS to be cited in the solicitation, and if required, the specific issue of individual documents referenced (see 2.1.1).
- c. Level A, B, or C preservation and packing (see section 3).

6.2 Subject term (key word) listing.

Intermediate Pack
Packing
Palletize
Preservation
Unitization
Unit Pack

6.3 Changes from previous issue. Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extensiveness of the changes.

Custodian:
Army - CR

Preparing activity:
Army - CR

Review activity:
Army - SM

(Project PACK-A350)

STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL*(See Instructions - Reverse Side)*

1. DOCUMENT NUMBER MIL-E-55585F(CR)		2. DOCUMENT TITLE Electronics Equipment and Parts, Packaging of	
3a. NAME OF SUBMITTING ORGANIZATION		4. TYPE OF ORGANIZATION (Mark one)	
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b. ADDRESS (Street, City, State, ZIP Code)			
5. PROBLEM AREAS			
a. Paragraph Number and Wording:			
b. Recommended Wording:			
c. Reason/Rationale for Recommendation:			
6. REMARKS			
7a. NAME OF SUBMITTER (Last, First, MI) - Optional		b. WORK TELEPHONE NUMBER (Include Area Code) - Optional	
c. MAILING ADDRESS (Street, City, State, ZIP Code) - Optional		8. DATE OF SUBMISSION (YYMMDD)	

INSTRUCTIONS: In a continuing effort to make our standardization documents better, the DoD provides this form for use in submitting comments and suggestions for improvements. All users of military standardization documents are invited to provide suggestions. This form may be detached, folded along the lines indicated, taped along the loose edge (*DO NOT STAPLE*), and mailed. In block 5, be as specific as possible about particular problem areas such as wording which required interpretation, was too rigid, restrictive, loose, ambiguous, or was incompatible, and give proposed wording changes which would alleviate the problems. Enter in block 6 any remarks not related to a specific paragraph of the document. If block 7 is filled out, an acknowledgement will be mailed to you within 30 days to let you know that your comments were received and are being considered.

NOTE: This form may not be used to request copies of documents, nor to request waivers, deviations, or clarification of specification requirements on current contracts. Comments submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or to amend contractual requirements.

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