

LMSSC PACKAGING STANDARD

P-51

Revision 3

Page 2

10/11/10

- 3.1.10 The operational integrity of the item(s) shall be protected against damage during shipment from the supplier to destination. Critical areas and/or surfaces of the item(s) shall be protected from abrasion by wrapping, blocking, cushioning, etc.
- 3.1.11 Large delicate/critical components, assemblies, parts, subject to damage from shock/vibration during transportation/handling, shall be adequately protected against such hazards by proper application of cushioning material, container design or other suitable shock mitigating methods (Ref MIL-HDBK 304).

CAUTION: ELECTRONIC ASSEMBLIES CONTAINING DISCRETE MICROCIRCUITS (SEMI- CONDUCTORS, INTEGRATED CIRCUITS, PRINTED WIRING BOARDS, ETC.), SUSCEPTIBLE TO DAMAGE FROM ELECTROSTATIC, ELECTROMAGNETIC OR RADIOACTIVE FORCES, SHALL BE PROTECTED WITH SUITABLE MATERIALS, SHIELDING, THROUGH COMPONENT DESIGN PRECAUTIONS TO PREVENT ASSEMBLY FAILURE. STATIC PRODUCING MATERIALS, i.e., POLY- ETHYLENE, POLYSTYRENE OR NYLON, SHALL NOT COME IN DIRECT CON- TACT WITH AN ITEM WHICH CAN BE DEGRADED BY STATIC DISCHARGE. SEE PARAGRAPH 5.1.2 FOR LIST OF ACCEPTABLE STATIC PROTECTIVE MATERIALS.

- 3.1.12 The type of preservation and quantity per unit container shall be as specified by the Lockheed Packaging Standard (LPS) callout on the procurement document.
- 3.1.13 The basic callout (P-51R1) prescribes the shipment of designated item(s) in wood/veneer or corrugated fiber containers. The suffix letters following the basic callout, e.g., P-51R1/A A A identifies specific quantity, preservation and container requirements.

3.2 UNIT PACKAGING

- 3.2.1 Unless otherwise specified, each item shall be individually wrapped with a neutral material. Include tarnish inhibitor and provide protective caps as applicable (Ref Paragraphs 3.1.4 and 3.1.6). Place item(s) in a snug fitting container (see Paragraph 5.1.2) and provide

P-51

Revision 3

Page 3

10/11/10

- 3.5.2 Shipping Container Marking - Label or mark each container to show part number per contracting document, the LMSSC contracting document number, supplier, destination and quantity of parts. Marking should be limited to that required by the P.O. or material specification.
- 3.5.3 Special, precautionary and handling markings shall be applied as required. Packages containing tarnish inhibitor shall be marked/labeled: "Protected with Tarnish Inhibitor – Do Not Open Until Ready for Use or Inspection". Special and precautionary handling labels shall meet ASTM D5445, Pictorial Marking for Handling of Goods.

P-51

Revision 3

Page 4

10/11/10

Table 1 PACKAGE QUANTITY REQUIREMENTS	
LPS Suffix	Quantity per Container
A	Package quantity shall be one each.
B	Package quantity shall be at supplier discretion, commensurate with carrier/container limitations.
C	Package quantity shall be in accordance with the assembly requirements, i.e., sets, reel quantity, kit quantity, drawing/specification or procurement document.
D	Package quantity shall not exceed the quantity specified in the procurement document.

Table 2 PRESERVATION/wrapping requirements	
LPS Suffix	Type of Protection
A	Item(s) shall be wrapped with a neutral material (Ref MIL-DTL-17667, Type I).
B	Items shall be interleaved with a neutral material (Ref MIL-DTL-17667, Type I).
C	No interleave or individual wrapping required.
D	Type of preservation shall be in accordance with item specification/drawing requirements.
E	Items must be separated from each other to prevent metal-to-metal contact. Use of spacers/separators between each item may be used in lieu of individual wrapping or interleaving.
F	Kit assemblies, sets, or specified grouping of items shall be wrapped as composite entities (not individual). Wrapping material shall not degrade the product.
G	Item(s) shall be wrapped or placed in bags made from plastic sheet (Ref L-P-378) and sealed. Thickness shall be minimum .004 inch.
H	Item(s) may be coiled/formed to a minimum practical diameter to reduce package cube. Use of stiffeners to prevent deformation of the item may be applied as applicable.

P-51

Revision 3

Page 5

10/11/10

Table 3 Containers		
LPS Suffix	Type/Style	Specification
A	Box, Wood/Corrugated - Any Style, providing that provisions of this specification are met	Suppliers Option (Ref Paragraph 5.1.2)
B	Box, Corrugated, Domestic - Any Style, Single Wall (SW)	ASTM D5118 & ASTM D1974
C	Box, Corrugated, Domestic - Any Style, Double Wall (DW)	ASTM D5118 & ASTM D1974
D	Box, Corrugated, Weather Resistant - Any Style, Single Wall (SW)	ASTM D5118 & ASTM D1974
E	Box, Corrugated, Weather Resistant - Any Style, Double Wall (DW)	ASTM D5118 & ASTM D1974
F	Box, Corrugated, Triple Wall - Any Style, (Nonweather Resistant)	ASTM D5168
G	Box, Wood, Nailed, Domestic - Any Style	ASTM D6880
H	Box, Wood, Cleated, Domestic - Any Style	ASTM D6251
I	Box, Wood, Cleated, Veneer, Domestic - Any Style	PPP-B-576