

LMSSC PACKAGING STANDARD

PACKAGING FOR PRINTED WIRING BOARD (PWB)

1. SCOPE

This standard provides methods for packaging printed wiring boards (PWBs). This standard applies to shipments from Lockheed Martin Space Systems Company (LMSSC) facilities and from suppliers to LMSSC facilities. Exceptions or additional requirements shall be specified by the purchase order or work instruction.

2. APPLICABLE DOCUMENTS

The following documents, of the latest issue, form a part of this standard to the extent specified herein.

2.1. LMSSC DOCUMENTS

P-40	General Requirements and Commercial Packaging
MAP-441008	Protection of Electrostatic Discharge Sensitive (ESDS) Devices

2.2. GOVERNMENT DOCUMENTS

MIL-PRF-131	Barrier Materials, Watervaporproof, Greaseproof, Flexible, Heat-Sealable
MIL-PRF-22191	Barrier Material, Transparent, Flexible, Heat-Sealable
MIL-D-3464	Desiccants, Activated, Bagged, Packaging Use and Static Dehumidification
MS20003	Indicator, Humidity, Card, Three Spot, Impregnated Areas (Cobaltous Chloride)
PPP-C-795	Flexible Closed Cell Plastic Film (Bubble Pack)
A-A-59135	Polyethylene or Polypropylene Sheet Material (Microfoam Sheeting)
A-A-3174	Plastic Sheet, Polyolefin

2.3. INDUSTRY DOCUMENTS

ESD S541-2008	Packaging Materials for ESD Sensitive Items
ESD S8.1-2007	Symbols . ESD Awareness

3. REQUIREMENTS

3.1. GENERAL

- 3.1.1. If there are any conflicts between this documents requirements and released engineering, the released engineering takes precedence.
- 3.1.2. The requirements of P-40, General Requirements for Commercial Packaging, also apply.
- 3.1.3.

- 3.3.2. Fill voids with suitable dunnage to prevent damage during handling and transportation.

3.4. PACKING

- 3.4.1. Pack any number of intermediate containers uniformly into each shipping container.
- 3.4.2. Shipping containers, as packed, shall protect each item and package during ordinary handling and transportation. Shipping containers shall meet the minimum requirements of the common carriers for acceptance for safe transportation.
- 3.4.3. Intermediate containers which meet the requirements of Section 3.4.2 may be used as shipping containers.
- 3.4.4. Enclose or attach a copy of the packing slip to the shipping container.

3.5. MARKING

- 3.5.1. Marking shall be in accordance with the requirements specified in the purchase order or part specification.
- 3.5.2. Special handling, precautionary markings, etc., shall be applied as required. Special and precautionary handling labels should be selected using the guidance of ASTM D5445, Pictorial Marking for Handling of Goods.
- 3.5.3.

