

FED. SUPPLY CLASS

PACK

1.0 SCOPE

- 1.1 This Standard provides a method for the protection of items, components and assemblies, e.g., field effect transistors, micro diodes, etc., which may be damaged by field forces (electrostatic, electromagnetic, magnetic or radioactive) encountered in non-operating environments.

2.0 REFERENCES

- 2.1 NAS850, General Packaging Standard.

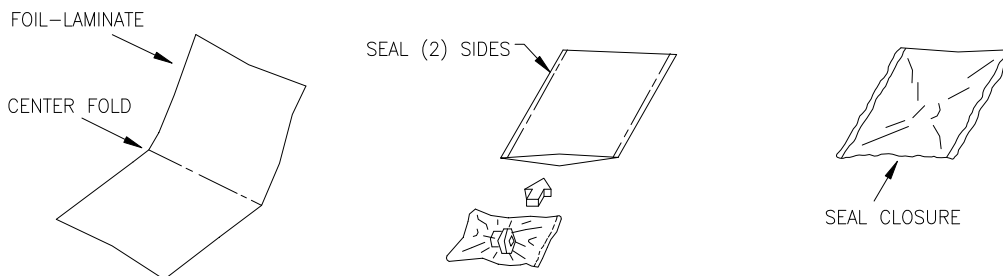
3.0 REQUIREMENTS

3.1 General

- 3.1.1 Field Force Protection as described herein shall be supplemented by preservation, packaging, packing, and marking for shipment and storage as required by NAS850, or NAS detail packaging standards.
- 3.1.2 Each item shall be individually and completely enclosed in materials capable of providing adequate protection against field forces as described herein.
- 3.1.3 Electrostatic Protection - Shall be provided by a plastic bag/wrap or containers that are conductive or antistatic having sufficient conductivity to provide electrostatic discharge protection to electrostatic discharge sensitive devices and assemblies such as microelectronic metal oxide semiconductors (MOS), field-effect transistors (FET) and printed circuit boards (PCB). Cushioning materials shall provide electrostatic discharge protection and be non-corrosive. The materials shall have a maximum surface resistivity of 2×10^9 ohms, when tested in accordance with ASTM D257 and a maximum bleed-off time of 2 seconds for 5,000 volts static electricity, when tested in accordance with Method 4046 of MIL-STD-3010. (5)

Items subject to electric discharge damage shall not be subjected to an environment that would cause damage to the part during handling and packaging.

- 3.1.4 Electromagnetic Protection - Shall be provided by overwrapping the device, already packaged in antistatic plastic in accordance with Para. 3.1.3, with aluminum foil or a bag fabricated from an aluminum foil bearing laminate. Foil laminate bags shall be constructed by center folding a single sheet of material of proper size to eliminate possible capacitor effects. Over wraps, other than those prescribed in 3.1.3, shall not be allowed to contact static sensitive items, even after removal. CAUTION: IN NO CASE SHALL THE ALUMINUM FOIL BE ALLOWED TO COME INTO DIRECT CONTACT WITH THE DEVICE.



THIRD ANGLE PROJECTION	
PROCUREMENT SPECIFICATION	NONE

CUSTODIAN ENGINEERING MANAGEMENT COMMITTEE
TITLE FIELD FORCE, PROTECTION FROM

REVISION 5
CLASSIFICATION PACKAGING STANDARD
NAS853 SHEET 1 OF 2

AEROSPACE INDUSTRIES ASSOCIATION OF AMERICA, INC.
1000 WILSON BLVD.
ARLINGTON, VA 22209

THIS DRAWING SUPERSEDES ALL ANTECEDENT STANDARD DRAWINGS FOR THE SAME
PRODUCT AND SHALL BECOME EFFECTIVE NO LATER THAN SIX MONTHS FROM THE LAST
REVISION DATE.

FORM 12-01

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- 3.1.5 Magnetic Protection - When specified, protection from single magnetic fields (as opposed to RF or electromagnetic radiation) shall be accomplished through the use of ferrous metals or ferritic compositions completely enclosing the device, and of a sufficient thickness to provide the degree of protection required by the particular device. This type of protection may be supplied in addition to the electrostatic protection as described in Para. 3.1.3, but shall not replace it.
- 3.1.6 Radioactivity Protection - When specified, protection from radiation emitted by radioactive sources shall be accomplished through the use of lead/lead filled compositions completely enclosing the device, and of sufficient thickness to provide the degree of protection required by the particular device. This type of protection may be provided in addition to the electrostatic or magnetic protection as described in Paras. 3.1.3 and 3.1.5, but shall not replace them.
- 3.1.7 Bags, wraps or containers shall be labeled or marked with appropriate instructions such as electrostatic discharge precaution labels.

4.0 QUALITY ASSURANCE

- 4.1 Packages which do not conform to these requirements are subject to rejection and return to supplier at his expense.

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NAS853
SHEET 2

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