

## ESD PROTECTIVE PACKAGING

ELECTROSTATIC DISCHARGE (ESD) PROTECTIVE PACKAGING AND MARKING FOR EQUIPMENT CONTAINING ELECTROSTATIC DISCHARGE-SENSITIVE ESDS), STANDARD ELECTRONIC MODULES (SEMS), PRINTED CIRCUIT CARDS/BOARDS, SUBASSEMBLIES AND PARTS.

- A. EQUIPMENT CONTAINING ESDS ITEMS SHALL HAVE CONDUCTIVE COVERS (I.E., CAPPLUGS, OR A SECTION OF ESD PROTECTIVE CONDUCTIVE OR STATIC DISSIPATIVE MATERIAL (BAG OR WRAP) WITH THE CONDUCTIVE SURFACE ADJACENT TO CONTACT PINS AND SECURED WITH CABLE TIE WRAPS OVER ENCLOSURE RECEPTACLES WHOSE PINS CONNECT TO CIRCUITS WHICH COULD BE DAMAGED BY ESD POTENTIALS.
- B. AN ESD CAUTION LABEL PLATE IN ACCORDANCE WITH ELECTRIC BOAT CORPORATION SPECIFICATION NO. 3584, UNLESS OTHERWISE SPECIFIED ON THE EQUIPMENT ASSEMBLY DRAWING, SHALL BE ATTACHED TO THE UPPER LEFT OR RIGHT FRONT CORNER OF THE EQUIPMENT.
- C. WRAPPING, CARTONS OR CRATES SHALL HAVE THE MIL-STD-129 ESD SYMBOL CAUTION LABEL ON AT LEAST TWO OF THE OUTER SURFACES AND NEAR ANY OTHER MARKINGS OR WITH LABELS AS SPECIFIED IN MIL-STD-129, MARKING FOR SHIPMENT AND STORAGE, AS APPLICABLE.
- D. FOR EQUIPMENT USING TERMINAL BOARDS FOR CONNECTION TO EXTERNAL CABLING, EXPOSED TERMINAL STRIPS (WITHOUT COVERING PANELS/BOXES) CONNECTING TO INTERNAL ESDS CIRCUITS, SHALL BE COVERED WITH STATIC DISSIPATIVE OR CONDUCTIVE ESD PACKAGING MATERIAL (STATIC DISSIPATIVE OR CONDUCTIVE LAYER ADJACENT TO TERMINALS) AND SECURED TO PREVENT INADVERTENT TERMINAL CONTACT BY PERSONNEL.

UTILIZING ELECTROSTATIC DISCHARGE SENSITIVE ESDS) PACKAGING FOR COMPONENTS THAT ARE NOT ESDS IS STRICTLY PROHIBITED. APPLYING ESDS LABELS OR MARKING TO COMPONENTS THAT ARE NOT ESDS, OR TO PACKAGING OF COMPONENTS THAT ARE NOT ESDS, IS STRICTLY PROHIBITED. INCORRECT OR IMPROPER ESDS IDENTIFICATION OF NON-ESDS COMPONENTS OR THE PACKAGING OF NON-ESDS COMPONENTS, WILL BE CAUSE FOR REJECTION BY ELECTRIC BOAT CORPORATION