

ELECTROSTATIC DISCHARGE PACKAGING

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

- A. EACH ESDS MODULE, PRINTED CIRCUIT CARD/BOARD, ELECTRONIC SUBASSEMBLY OR PART, UNLESS INDICATED IN PURCHASE ORDER AS A SET OF ITEMS, SHALL BE INDIVIDUALLY PACKAGED (UNIT PACK) IN A TRANSPARENT MULTILAYER (FARADAY CAGE) WRAP OR BAG HAVING AN INNER LAYER CAPABLE OF PREVENTING STATIC CHARGE BUILD-UP WITHIN THE BAG AND AN OUTER LAYER CAPABLE OF DISSIPATING EXTERNAL FIELDS AND CHARGES.
INTEGRATED CIRCUITS IDENTIFIED IN THE PURCHASE ORDER AS ESDS SHALL BE INDIVIDUALLY PACKAGED IN CAPPED TUBES OF STATIC DISSIPATIVE OR CONDUCTIVE TRANSPARENT MATERIAL OR HAVE PINS NESTED IN NON-CORROSIVE (3M TYPE 2910 OR 2915, OR EQUIVALENT) CONDUCTIVE FOAM AND BAGGED AS ABOVE.
- B. PROTECTIVE PACKAGING BAG OR WRAP CLOSURE MAY BE HEAT SEALED, ZIP LOCK OR FOLDED-END. FOLDED OVER MATERIAL MUST MATE INSIDE SURFACES, EDGE TO EDGE, PRIOR TO FOLDOVER, TO PREVENT OUTSIDE CONDUCTIVE LAYER FROM CONTACTING INSIDE ANTISTATIC LAYER. FOLD-OVER FLAPS MAY BE SECURED WITH ESD LABELS. ANTI-STATIC BUBBLE WRAP MAY BE USED INSIDE OR OUTSIDE OF CONDUCTIVE OR STATIC DISSIPATIVE BAG OR WRAP PROVIDED THAT ENCLOSED ITEM'S PART NUMBERS; AS INDICATED BELOW ARE STAMPED ON OR LABELED OUTSIDE OF PACKAGING WHEN BUBBLE WRAP OBSCURES PART NUMBERS OR ITEMS ON INNER PACKAGING. STAPLES, TEARS, SPLITS, CUTS OR OTHER DISCONTINUITIES IN PROTECTIVE PACKAGING ARE NOT ACCEPTABLE: NON-CONDUCTIVE ADHESIVE TAPE SHALL NOT BE USED.
- C. INDIVIDUAL (UNIT) PACKAGES OR PURCHASED SETS SHALL HAVE THE BUYER'S AND/OR SELLER PART NUMBER AND FOR SEM MODULES; MODULE KEY CODE STAMPED ON THE OUTSIDE OF PROTECTIVE PACKAGING TO BE VISIBLE WITHOUT UNPACKAGING THE ITEM, OR BE MARKED WITH THAT INFORMATION ON A STICKER ATTACHED TO OUTSIDE OF THE PACKAGING.

D. UNIT PACKAGING AND ALL SUCCEEDING PACKAGING BAGS, WRAPS, CARTONS, ETC., SHALL HAVE THE MIL-STD-129 ESD SYMBOL ON A LABEL ATTACHED TO THE PACKAGING.

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