**METHODS OF MARKING AS SPECIFIED IN ND 1002215.**

A. AS PER FED-STD-595 AND SHALL BE OPAQUE WHEN LEGEND IS ENERGIZED.

**RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED OR CONVEYED ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.**

**REQUIREMENTS:**

1. **GENERAL:**
   A. INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-7037.
   B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.
   C. UNITS SHALL BE CAPABLE OF MEETING ALL QUALIFICATION REQUIREMENTS OF ND 1002054.

2. **METHODS OF MARKING:**
   A. PARTS SHALL BE PERMANENTLY AND LEGIBLY MARKED IN ACCORDANCE WITH ND 1002191, WITH THE MANUFACTURER'S NAME AND/or SYMBOL, LOT CODE OR NUMBER, TERMINAL IDENTIFICATION AND HASA PART NUMBER (DRAWING NUMBER) AND REVISION LETTER.

3. **PREPARATION FOR DELIVERY:**
   A. MARKINGS OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 1002215.

4. **ACCURACY AND INSPECTION:**
   A. MECHANICAL AND PHYSICAL PROPERTIES:
      (1) MARKING OF SHIPPING CONTAINERS SHALL BE IN ACCORDANCE WITH ND 1002195, CLASS 1, CODE 1.
      (2) MARKINGS OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 1002215.

5. **ELECTRICAL CHARACTERISTICS:**
   A. POWER DISSIPATION:
      (1) BRIGHTNESS: LEGEND BACKGROUNDS SHALL HAVE A BRIGHTNESS LEVEL OF 15 TO 30 FOOT-LAMENTS AT 5.0 TO 7.0 VDC.
      (2) CONTRAST BETWEEN BLACK CHARACTERS AND UNENERGIZED LEGEND AREAS TO BE BETWEEN 2 TO 4 UNITS IN ACCORDANCE WITH MIL-P-7788.
      (3) COLOR, WHITE DISPLAYS TO BE YELLOW, ALL OTHER LEGEND AREAS TO BE WHITE.
      (4) SURFACE GLOSS: THE DISPLAY AREAS SHALL HAVE A SURFACE GLOSS OF 5 UNITS OR LESS AS MEASURED PER MIL-P-7788.
      (5) CONTRAST BETWEEN BLACK CHARACTERS AND WHITE DISPLAYS TO BE BETWEEN 200 TO 25 VAMS AT 60 CPS FOR 5 SECONDS BETWEEN ADJACENT TERMINALS AND BETWEEN ANY TERMINAL AND THE CASE PER MIL-STD-202, METHOD 301.

**APPROVAL:**

INITIAL RELEASE CLASS A

PER TECH 2447

A. REVISED PER TECH 25335

**REMARKS:**

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN MICRUfarads RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DEGREES ANGLES DO NOT SCALE THIS DRAWING
REQUIREMENTS (CONTINUED)

3. DESIGN:
   a. OPERATING LIFE: 4000 HOURS MINIMUM AT POWER DISSIPATION PER
      NOTE 2.A.(1) AT 70°F + 10°F AMBIENT TEMPERATURE.
   b. MATERIAL: ALL MATERIAL SHALL BE CAPABLE OF MEETING THE
      REQUIREMENTS OF THIS DRAWING AND EXHIBIT NO TOXICITY.
      (1) PLASTIC FACE PLATE: ACRYLIC SHEET PLASTIC PER
      MIL-P-5425, FINISH A.
      (2) CASE: ALUMINUM ALLOY.
   c. FINISHES:
      (1) ALUMINUM CASE: CHROMATE TREAT PER MIL-C-5541.
      (2) PAINT SURFACES MARKED "A" AND TOP BORDER AREA
      GREY EPOXY ENAMEL PER NS1002279 USING:
      (2) PAINT SURFACES MARKED "A" AND TOP BORDER AREA
      GREY EPOXY ENAMEL PER NS1002279 USING:

D. TERMINALS AND INSULATORS: SHALL MEET THE REQUIREMENTS OF
   MIL-20234.

E. PANEL COLORS: [REF NOTE 2.A.(4)] YELLOW COLOR TO BE
   AVIATION YELLOW AND WHITE COLOR TO BE AVIATION WHITE PER
   MIL-C-5066. COLOR COORDINATES SHALL REMAIN WITHIN THE
   LIMITS OF THE SPECIFIED AVIATION COLORS WHEN ENERGIZED
   FROM 5.0 THRU 2.0 VDC. THE X, Y COORDINATES FOR THE
   AVIATION WHITE DISPLAYS SHALL NOT EXCEED X = 0.254 WHEN
   ENERGIZED FROM 5.0 THRU 2.0 VDC.

F. LAMPS: EACH OF THE 10 LEGEND AREAS SHALL BE ILLUMINATED
   BY 6 LAMPS, PARALLEL AS SHOWN IN THE SCHEMATIC.
   YELLOW DISPLAY LAMPS TO BE NS 24367-480. WHITE DISPLAY
   LAMPS TO BE NS 24367-713.

G. UNIT MOUNTED ON A SUITABLE FIXTURE, THE UNIT SHALL BE CAPABLE
   OF WITHSTANDING A PRESSURE OF 15 PSI OF HELIUM APPLIED AGAINST
   THE 2/3 AREA, WHEN THE EXTERNAL PRESSURE IS REDUCED TO 1" HG
   EQUIVALENT PRESSURE. WHEN SUBJECTED TO THIS DIFFERENTIAL
   PRESSURE, THE UNIT SHALL EXHIBIT A LEAK RATE OF NO MORE THAN
   0.01 X 10E7 ATM CC/SEC OVER THE TEMPERATURE RANGE OF -10°C TO+82°C.

4. NOTE: THIS UNIT IS TO BE MOUNTED ON A HEAT SINK. WHEN LEGENDS
   ARE ENERGIZED FOR PERIODS LONGER THAN TWO (2) MINUTES, A
   SATISFACTORY HEAT SINK CAN BE AN ALUMINUM OR BRASS PLATE 1/20
   X 1/2 X 1/20 WITH A CENTERED RECTANGULAR OPENING FOR MOUNTING
   THE UNIT.