REQUIREMENTS:

1. GENERAL:
   A. Interpret drawing in accordance with the standards prescribed by MIL-D-70327.
   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 1002019, including these specified for hermetically sealed units.
   D. Part marking: Parts shall be permanently and legibly marked, in accordance with ND 1002019, with the manufacturer’s name and/or symbol, lot code or number, terminal identification and case part number (drawing number and revision letter). Marking shall appear on the case surface.
   E. Preparation for delivery shall be in accordance with ND 100215, Class 1, Code 3.

2. ACCEPTANCE AND INSPECTION (100%):
   A. Mechanical properties:
      (1) Dimension: Shall be as shown.
      (2) Surface roughness: 125/ unless otherwise specified.
      (3) Legends: To be 125 Hg black characters (futura script) per MIL-I-45253.
      (4) When mounted on a suitable fixture, unit shall withstand pressure of 15 psi.
   B. Electrical properties:
      (1) Light intensity: See Table.
      (2) Power factor: 0.75 maximum when excited per 2.B.(1).
      (3) Total current (all areas energized per 2.B.(1))<0.1 mA max.
      (4) Case pin NO. 15 pin to all other pin resistances: Max. 100.
   C. Design requirements:
      A. Operating life: 2000 hours minimum with a loss of not more than 60% of original light intensity when excited per 2.B.(1) at 25°C.
      B. Storage life: 1 yr minimum without loss of electrical performance at 0°C to +40°C.
      C. Operating temperature range: -55°C to +125°C.
      D. Electroluminescent displays shall be hermetically sealed.
      E. Material: Aluminum alloy.
      F. Ratings:
         (1) Light output wavelength: 5300 angstroms (nominal).
         (2) Peak continuous voltage: 420 V max. (840 V peak-peak 800 CPS)
         (3) Total current (all areas energized per 2.B.(1): 15.0 mA max.
         (4) Case GND (pin NO. 15) to all other pins resistance: Max. 100.
   D. Finishing:
      (1) Chromate treatment per MIL-C-5541 (all case).
      (2) Paint surfaces marked "A" and "B" are on surface "A".
      (3) Dark gray paint per ND 1002279 using paint 1608809-1.
   E. Marking:
      (1) Light output wavelength: 5300 angstroms (nominal).
      (2) Peak continuous voltage: 420 V max. (840 V peak-peak 800 CPS)
      (3) Total current (all areas energized per 2.B.(1): 15.0 mA max.
      (4) Case GND (pin NO. 15) to all other pins resistance: Max. 100.

3. DESIGN REQUIREMENTS:
   A. Operating life: 2000 hours minimum with a loss of not more than 60% of original light intensity when excited per 2.B.(1).
   B. Storage life: 1 yr minimum without loss of electrical performance at 0°C to +40°C.
   C. Operating temperature range: -55°C to +125°C.
   D. Electroluminescent displays shall be hermetically sealed.
   E. Material: Aluminum alloy.
   F. Ratings:
      (1) Light output wavelength: 5300 angstroms (nominal).
      (2) Peak continuous voltage: 420 V max. (840 V peak-peak 800 CPS)
      (3) Total current (all areas energized per 2.B.(1): 15.0 mA max.
      (4) Case GND (pin NO. 15) to all other pins resistance: Max. 100.

4. FINISH:
   A. Chromate treatment per MIL-C-5541 (all case).
   B. Paint surfaces marked "A" and "B" are on surface "A".
   C. Dark gray paint per ND 1002279 using paint 1608809-1.
   D. Marking:
      (1) Light output wavelength: 5300 angstroms (nominal).
      (2) Peak continuous voltage: 420 V max. (840 V peak-peak 800 CPS)
      (3) Total current (all areas energized per 2.B.(1): 15.0 mA max.
      (4) Case GND (pin NO. 15) to all other pins resistance: Max. 100.

5. TERMINALS AND INSULATORS:
   Shall meet the requirements of MIL-D-70327.

6. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.

7. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 100215, Class 1, Code 3.

8. MARKING OF SHIPMENT CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 100215.

9. ELECTRIC RAR HHER:

10. D. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.

11. PART MARKING:
    PARTS SHALL BE PERMANENTLY AND LEGIBLY MARKED, IN 32H UNLESS OTHERWISE SPECIFIED.

12. UNITS SHALL BE CAPABLE OF MEETING ALL QUALIFICATION REQUIREMENTS OF ND 1002019, INCLUDING THOSE SPECIFIED FOR HERMETICALLY SEALED UNITS.

13. MOUNTING:
    MOUNTING HOLE SIZE AND POSITION ON COVER PANEL ARE TO BE AS SHOWN.

14. MATERIAL:
    ALUMINUM ALLOY.

15. ELECTRIC RAR HHER:
    ELECTRIC RAR HHER:

16. STORAGE LIFE:
    1 YR MINIMUM WITHOUT LOSS OF ELECTRICAL PERFORMANCE AT 0°C TO +40°C.

17. FINISH:
    FINISH:

18. UNLESS OTHERWISE SPECIFIED.
    UNLESS OTHERWISE SPECIFIED.

19. CONDUIT:
    CONDUIT:

20. MATERIAL SPECIFICATION:
    MATERIAL SPECIFICATION:

21. DRAWING:
    DRAWING:

22. SPECIFICATIONS:
    SPECIFICATIONS:

23. NOTE:
    NOTE:

24. APPROVED:
    APPROVED:

25. PROJECTION:
    PROJECTION:

26. MANNED SPACECRAFT CENTER:
    MANNED SPACECRAFT CENTER:

27. INSTRUMENTATION LAB:
    INSTRUMENTATION LAB:

28. SPECIFICATION:
    SPECIFICATION:

29. DRAWING:
    DRAWING:

30. CODE:
    CODE:

31. DRAWING NO.:
    DRAWING NO.:

32. ND:
    ND:

33. REVISED:
    REVISED:

34. CHECKED:
    CHECKED:

35. APPROVED:
    APPROVED:

36. DATE:
    DATE:

37. SCALE:
    SCALE:

38. SHEET:
    SHEET:
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<th>BACKGROUND COLOR</th>
<th>CONTRAST RATIO (MIN.)</th>
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NOTE APPLICATIONS