NOTES:

1. REQUIREMENTS:
   A. THIS DEVICE SHALL MEET THE MATERIAL AND WORKMANSHIP REQUIREMENTS OF MIL-S-19500.
   B. LEAD MATERIAL SHALL BE IN ACCORDANCE WITH NASA DOCUMENT PS 1015402 EXCEPT LEAD DIAMETERS SHALL BE AS FOLLOWS:
      (1) THE LEAD DIAMETER IN THE ZONE BETWEEN .050 AND .250 FROM THE BASE SEAT SHALL BE .016 PLUS .003 MINUS .000.; IN THE ZONE BETWEEN .250 AND 1.5 FROM THE BASE SEAT SHALL BE .021 MAX, AND IN ALL OTHER ZONES SHALL BE UNCONTROLLED.
   C. UNITS SHALL BE HERMETICALLY SEALED IN A METAL CASE.
   D. UNITS SHALL MEET THE TEST REQUIREMENTS AS SPECIFIED IN NO 1002017.
   E. QUALITY ASSURANCE PROVISIONS SHALL BE IN ACCORDANCE WITH NASA DOCUMENT NO 1015404 SECTION 1.
   F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH MIL-S-19491.

2. EXPLANATORY NOTES FOR SCHEMATIC:
   A. R1 IS THE EMITTER DEGENERATION REQUIRED TO BALANCE THE D.C. COLLECTOR VOLTAGES OF T1 AND T2 AND TO GET THE REQUIRED DIFFERENTIAL GAIN.
   B. V2 IS ADJUSTABLE TO SET SENSING THRESHOLD. -4V ≤ V2 ≤ 4V
   C. AN EXTERNAL RESISTOR MIGHT BE ADDED AT THIS POINT TO MATCH SENSE AMPLIFIERS IF ANALYSIS SHOWS IT TO BE NECESSARY.
   D. V2 AND ITS ACCOMPANYING 100 O RESISTORS MAY NOT BE USED ON SOME SENSE AMPLIFIERS, WHEN THEY ARE SPECIFIED TO BE USED THEY WILL BE CONNECTED AS SHOWN BY THE DOTTED LINES.
   E. INTERPRET-DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-S-7037.

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00055 DATE 11-8-62

SEMICONDUCTOR DEVICE,
SENSE AMPLIFIER
SPECIFICATION CONTROL DRAWING

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEMICONDUCTOR DEVICE
SENSE AMPLIFIER

INSTRUMENTATION LAB
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