NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY 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, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED AS IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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 NASA DRAWING NO. 1002031.
   E. QUALITY ASSURANCE PROVISIONS SHALL BE IN ACCORDANCE WITH NASA DOCUMENT ND 1015404 SECTION 1.
   F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH MIL-S-19492.

2. EXPLANATORY NOTES FOR SCHEMATIC:
   A. R® IS THE EMITTER DEGENERATION REQUIRED TO BALANCE THE D.C. COLLECTOR VOLTAGES OF T1 AND T2 AND TO GET THE REQUIRED DIFFERENTIAL GAIN.
   B. V1 IS ADJUSTABLE TO SET SENSING THRESHOLD. -6V < V1 < -4V.
   C. AN EXTERNAL RESISTOR MIGHT BE ADDED AT THIS POINT TO MATCH SENSE AMPLIFIERS IF ANALYSIS SHOWS IT TO BE NECESSARY.
   D. Y2 AND ITS ACCOMPANYING 100 OHM 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-D-70327.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00695 DATE 11-8-82

REPLACED WITH CHANGE BY REV E

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEMICONDUCTOR DEVICE, SENSE AMPLIFIER
SPECIFICATION CONTROL DRAWING

INSTRUMENTATION LAB
MIT TECHNICAL DIRECTIVE PROCURE THIS PART AS CHANGE LETTER BY ORDERING TO VENDOR CATALOG NO. & SPECIFICATIONS. REFER TO ND 1002034.

IF APPLICABLE, REFER TO

CODE IDENT NO. SIZE NASA DRAWING NO.
C 1006769