YIE9001

REVISIONS

SYM DESCRIPTION DATE APPROVAL

INITIAL RELEASE CLASS A
PER TORR 16585

A REVISED PER TORR 25021 1/1144 WK

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCOMPANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- B. UNITS SHALL MEET THE REQUIREMENTS OF MIL-S-19500 EXCEPT AS, AND IN ADDITION TO THE REQUIREMENTS, SPECIFIED HEREIN.
- C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.
- D. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS OF ND 1002051.
- E. PART MARKING: PARTS SHALL BE PERMANENTLY AND LEGIBLY MARKED, IN ACCORDANCE WITH ND 1002019, WITH THE NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER), LOT CODE, SERIAL NUMBER AND TERMINAL IDENTIFICATION.
- F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I, CODE 2.
 - (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN ND 1002215.

2. ACCEPTANCE AND INSPECTION:

- A. MECHANICAL REQUIREMENTS (MIL-STD-105D, LEVEL I, Ant = 4.0)
 - (1) DIMENSIONS: AS DELINEATED HEREIN.
 - (2) MOUNTING HARDWARE: THE FOLLOWING PARTS AS DELINEATED SHALL ACCOMPANY EACH TRANSISTOR, PACKAGED IN ACCORDANCE WITH ND 1002215, CLASS I. CODE ... SEPERATELY.

NUT, PLAIN, HEXAGON - CODE 7 INSULATOR, WASHER - CODE 4 INSULATOR, BUSHING - CODE 4

- B. ELECTRICAL CHARACTERISTICS: THE FOLLOWING PARAMETERS, AS SPECIFIED IN TABLE I, SHALL BE INSPECTED ON 100 PERCENT OF PROCUREMENT.
 - (1) BREAKDOWN VOLTAGE: BVEBO. BVCBO. LVCEO
 - (2) CUTOFF CURRENT: ICBO
- (3) STATIC FORWARD CURRENT TRANSFER RATIO: hfe1. hfe2. hfe3
- (4) SATURATION VOLTAGE: VCE(SAT)1. VBE(SAT)1
- C. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE ACCOMPANIED BY THE FOLLOWING INFORMATION.
 - (1) CERTIFICATE OF COMPLIANCE WITH LEAD MATERIAL REQUIREMENT.
 - (2) CERTIFICATE OF COMPLIANCE WITH ND 1015404, CLASS 2.

3. DESIGN:

- A. STORAGE LIFE: INDEFINITE WHEN STORED AT TEMPERATURES BETWEEN -65°C AND +200°C.
- B. ABSOLUTE MAXIMUM RATINGS (AT +25° ± 3°C UNLESS OTHERWISE SPECIFIED).
 - (1) COLLECTOR-BASE VOLTAGE (VCB): 100 VDC
 - (2) COLLECTOR-EMITTER VOLTAGE (VCE): 80 VDC
 - (3) EMITTER-BASE VOLTAGE (VBE): 8 VDC
 - (4) COLLECTOR CURRENT (IC): 30 AMPERES DC
 - (5) POWER DISSIPATION, TOTAL (PT): 100 WATTS AT +100°C CASE TEMPERATURE.
 - (6) THERMAL RESISTANCE, JUNCTION-CASE (0J-C): 1°C/WATT
 - (7) JUNCTION OPERATING TEMPERATURE (TJ): +200°C
 - (8) STORAGE TEMPERATURE (TSTG): -65°C TO +200°C

C. CONSTRUCTION:

(1) MATERIAL:

LEADS: WELDABLE, GOLD PLATED, ANNEALED IRON-NICKEL-COBALT ALLOY (KOVAR) IN ACCORDANCE WITH ND 1015402 EXCEPT AS FOLLOWS:

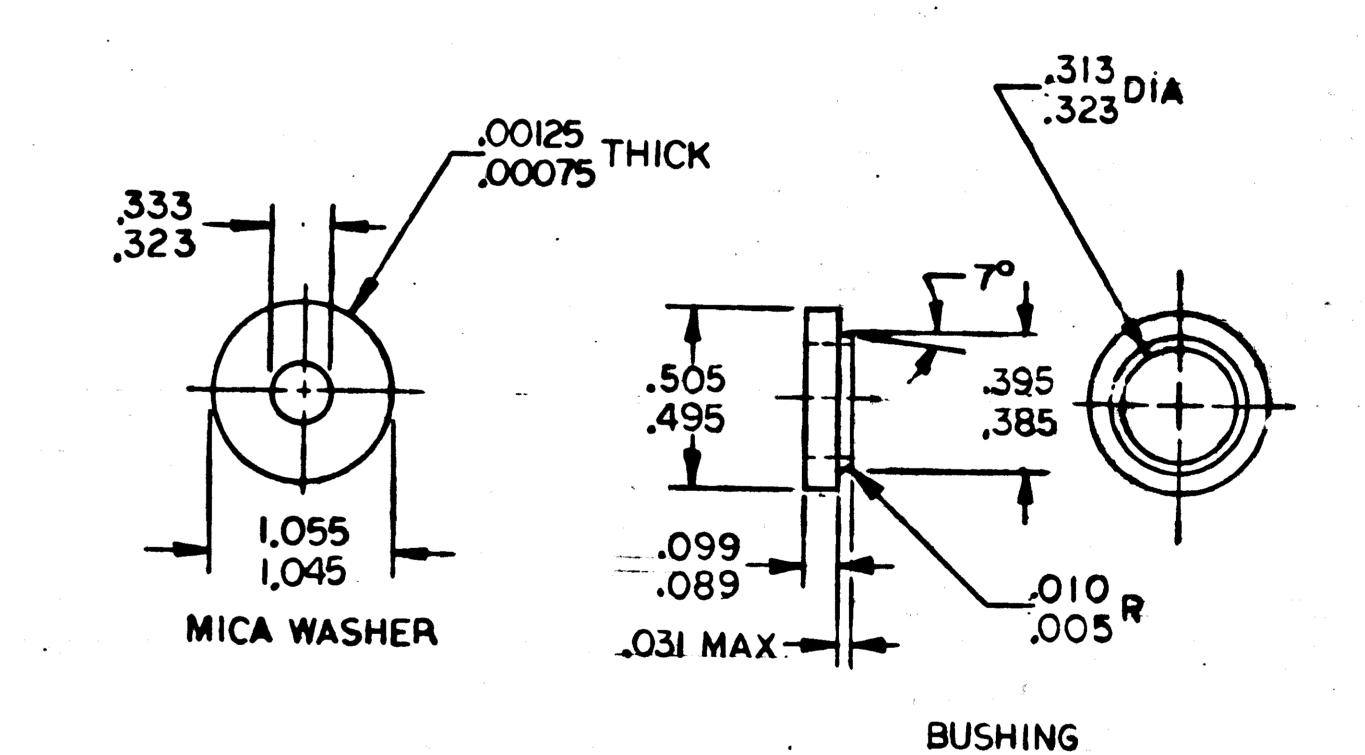
- (a) TERMINAL DIMENSIONS AS SPECIFIED ON DRAWING.
- (b) PLATING THICKNESS TO BE 175-225 MICROINCHES NICKEL AND 10-20 MICROINCHES OF GOLD.

STUD AND NUT: NICKEL PLATED BRASS.

INSULATOR, WASHER: 0.00075 + 0.00050 - 0.00000 THICK NATURAL MICA (MUSCOVITE)

INSULATOR, BUSHING: ALUMINA (96% A1203)

- 24UNF -2B



LIST OF MATERIALS

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES

TOLERANCES ON

FRACTIONS

DECIMALS

TOLERANCES ON

FRACTIONS

DECIMALS

TOLERANCES ON

FRACTIONS

DECIMALS

ANGLES

CAMBRIDGE, MASS.

DWG. NO.

CONTRACT

CHECKED

TOLERANCE

DO NOT SCALE THIS DRAWING

MATERIAL

SEE NOTES

HEAT TREATMENT

NONE

NASA APPROVAL

NASA APPROVAL

NASA APPROVAL

NASA APPROVAL

SEE NOTES

HEX NUT

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

NOMENCLATURE OR

DESCRIPTION

FIND

NO.

TRANSISTOR, NPN, SILICON, POWER

SPECIFICATION CONTROL DRAWING

CODE IDENT NO. SIZE NASA DRAWING NO. 1006317

SCALE NONE WT SHEET 1 OF 2

A

2

PART OR

IDENTIFYING NO.

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APPLICATION

