NOTES:

GENERAL REQUIREMENTS:

- INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70327.
- UNITS SHALL BE IN ACCORDANCE WITH MIL-R-93/20 (TYPE RB71) AS SPECIFIED BELOW WITH EXCEPTIONS.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN ND 1015404, CLASS 2.
- UNITS SHALL BE CAPABLE OF METTING THE QUALIFICATION REQUIREMENTS OF ND 1002057.
- UNITS SHALL BE PERMANENTLY AND LEGIBLY MARKED, PER NO 1002019 WITH THE RESISTANCE VALUE, WATTAGE AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER). PACKAGES SHALL BE MARKED, PER MIL-STD-129, WITH THE MANUFACTURER'S NAME AND/OR SYMBOL, LOT CODE, DATE OF MANU-FACTURE OR DATE CODE AND THE NASA PART NUMBER.

ACCEPTANCE AND INSPECTION:

- A. MECHANICAL PROPERTIES:
 - (1) LEAD MATERIAL: NICKEL PER ND PS 1015400. MATERIAL CERTIFICATION SHALL ACCOMPANY EACH SHIPMENT.
- ELECTRICAL CHARACTERISTICS (AT 25 ± 0.1°C UNLESS OTHERWISE SPECIFIED):
 - (1) RESISTANCE VALUE: 4000 OHMS.
 - (2) RESISTANCE TOLERANCE: ± 1%
 - (3) RESISTANCE-TEMPERATURE CHARACTERISTIC (FROM +25° TO +105°C): +4300 2 300 PPM/°C.

- - (1) MAXIMUM WORKING VOLTAGE: 100 VOLTS.
 - (2) POWER DISSIPATION: 1.25 WATTS AT +105°C DERATED LINEARLY TO (6) 1.10 WATTS AT +125°C. (SEE FIGURE 1.).... 32 CART. 28 C. 104
 - (3) RESISTANCE: VALUE STABILITY (LONG RANGE): 30 PARTS PER MILLION FOR ONE YEAR AND 50 PARTS PER MILLION FOR A 3 YEAR PERIOD.
- B. OPERATING LIFE: 2000 HOURS MINIMUM AT FULL RATED WATTAGE.
- .C. STORAGE LIFE: 1 YEAR MINIMUM AT ROOM TEMPERATURE WITHOUT ELECTRICAL CHANGE.
- D. CONSTRUCTION: ENCAPSULATED, WIREWOUND RESISTANCE ELEMENT.

SPECIAL CONDITIONING:

DESTRUM ADQUIREMENTS:

- A. TEMPERATURE CYCLING: ALL RESISTORS SHALL BE TEMPERATURE CYCLED IN ACCORDANCE WITH MIL-R-93, PARAGRAPH 4.6.4. ALL PARTS NOT MEETING PARAGRAPH 2.B.2 OF THIS SPECIFICATION AFTER TEST SHALL BE REJECTED.
- 3. BURN IN: ALL RESISTORS SHALL BE SUBJECTED TO A 74 FOUR FULL POWER BURN IN AT 105°C AMBIENT TEMPERATURE. THE CHANGE IN RESISTANCE SHALL NOT EXCEED 0.2%. DO NOT SHIP ANY PARTS WHICH ARE BEYOND PURCHASE TOLERANCE AT CONCLUSION OF TEST.

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

POWER SHALL BE APPLIED FOR AT LEAST 98 HOURS WITH ONE TURN OFF PERIOD OF AT LEAST ONE(1) HOUR NEAR THE FIFTY(50) HOUR INTERVAL. MEASUREMENTS SHOULD BE TAKEN AND DATA RECORDED BEFORE AND AFTER TEST. THESE MEASUREMENTS ARE TO BE TAKEN WITHIN ONE(1) HOUR BEFORE START AND AFTER TEST. MEASUREMENT TEMPERATURES SHALL BE WITHIN ONE(1) DEGREE CENTIGRADE OF EACH OTHER.AND CORRECTED TO 0.2°C. TOTAL RESISTANCE CHANGE AS A RESULT OF THE STABILITY TEST

SHOULD NOT EXCEED 400 PPM.

C. EACH RESISTOR SHALL BE SERIALIZED AND RESISTANCE MEASURE-MENTS TAKEN AND SUPPLIED WITH SHIPMENT AT 0°C ± 0.1°C, 25°C ± 0.1°C, 50°C ± 0.1°C AND 70°C ± 0.1°C.

EACH RESISTOR SHALL BE ENERGIZED AT FULL RATED POWER

(40%) AT 125°C +0° FOR A PERIOD OF 100 +2 HOURS.

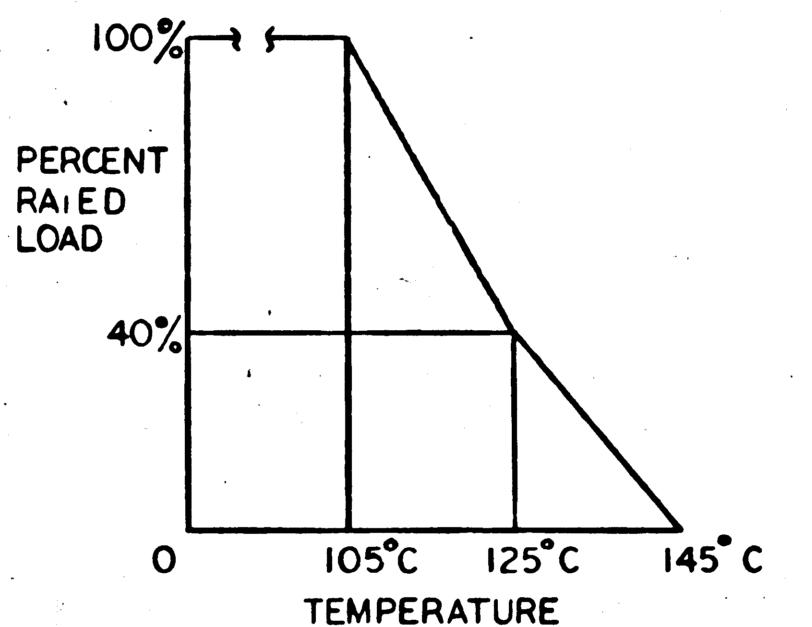
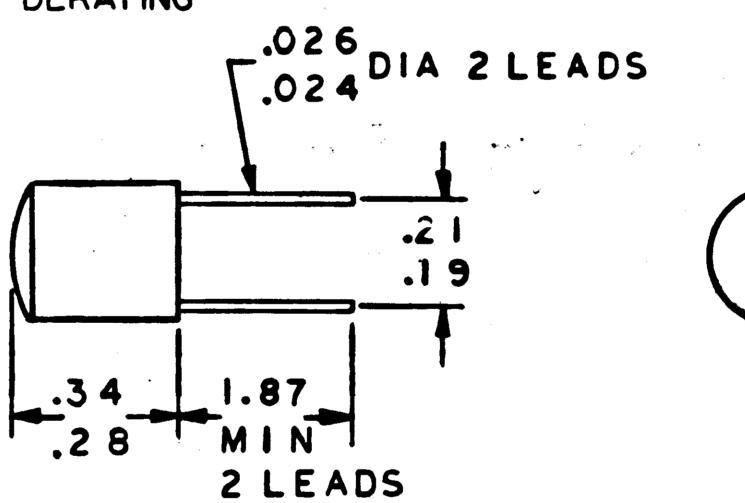


FIG I - POWER DERATING



02821

6/8/65 WK.

DATE APPROVAL

REVISIONS

DESCRIPTION

•	•	•	QTY REQD	PART OR IDENTIFYING NO.	·	NOMENCLATURE DESCRIPTION		FIND NO.
			LIST OF MATERIALS					
		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. DWG. NO. CONTRACT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
·		FRACTIONS DECIMALS ANGLES ± ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTES	CHECK APPRO	RESISTOR, FIXED, V CHECKED & Character 23 Amy 63 APPROVAL Eller C Hall 23 Aug 63 SPECIFICATION CONTR			COEF	
NEXT ASSY	USED ON	HEAT TREATMENT FINAL FINISH		APPROVAL JACK Beam	CODE IDENT NO.		A DRAWING NO. 06714	
APPLICATION		•	MIT APPROVAL A Nayy 8/28/8	SCALE NONE	WT	SHEET OF		
3			2		1			