

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 BY 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.

REQUIREMENTS:

1. GENERAL:
 - A. INTERPRET DRAWING SYMBOLS, ABBREVIATIONS AND REFERENCE DESIGNATIONS IN ACCORDANCE WITH GOVERNMENT STANDARDS PRESCRIBED IN MIL-D-70327.
 - B. UNITS SHALL MEET THE REQUIREMENTS OF MIL-R-10509 STYLE RN55, CHARACTERISTIC E, TOLERANCE B; EXCEPT AS SPECIFIED HEREIN.
 - C. SUPPLIER SHALL CONFORM TO QUALITY ASSURANCE PROVISIONS SPECIFIED IN ND 1015404, CLASS 2.
 - D. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS OF ND 1002057 UNLESS MODIFIED OR AMENDED BY THE DESIGN REQUIREMENTS SECTION OF THIS DRAWING.
 - E. UNIT PACKAGING AND PACKING SHALL BE IN ACCORDANCE WITH ND 1002129.

2. INSPECTION AND ACCEPTANCE:

- A. ELECTRICAL REQUIREMENTS:
 - (1) RESISTANCE VALUES: PER TABLE
 - (2) RESISTANCE TOLERANCE: SEE TABLE
- B. MECHANICAL REQUIREMENTS:
 - (1) MARKING: THE MANUFACTURER'S NAME OR SYMBOL (CAN BE CHARACTERISTIC COLOR), THE LAST THREE DIGITS OF THE NASA DRAWING NUMBER, DASH NUMBER, REVISION LETTER, AND SERIAL NUMBER, SHALL BE PERMANENTLY AND LEGIBLY MARKED ON THE PART PER ND1002019. THE MANUFACTURER'S PART OR TYPE NUMBER MAY APPEAR ON THE PART OR PACKAGE. MARKING OF UNIT PACKAGES AND SHIPPING CONTAINERS SHALL CONTAIN THE NASA DRAWING NUMBER, THE DASH NUMBER AND THE REVISION LETTER, OR LOT CODE NUMBER
 - (2) LEAD MATERIAL SHALL BE NICKEL PER ND 1015400. A CERTIFICATION OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.
- C. DIMENSIONS PER FIGURE.

3. DESIGN REQUIREMENTS:

- A. PER MIL-R-10509 AS MODIFIED BY THIS DRAWING.
- B. POWER RATING: 0.10 WATT AT +125°C DERATED LINEARLY TO 175°C.
- C. TEMPERATURE COEFFICIENT: ± 25 PPM/°C (-55°C TO +175°C)
- D. MAX CONTINUOUS WORKING VOLTAGE: 200 VOLTS
- E. DIELECTRIC WITHSTANDING VOLTAGE: 750 VOLTS RMS

4. SPECIAL CONDITIONING BY SUPPLIER:

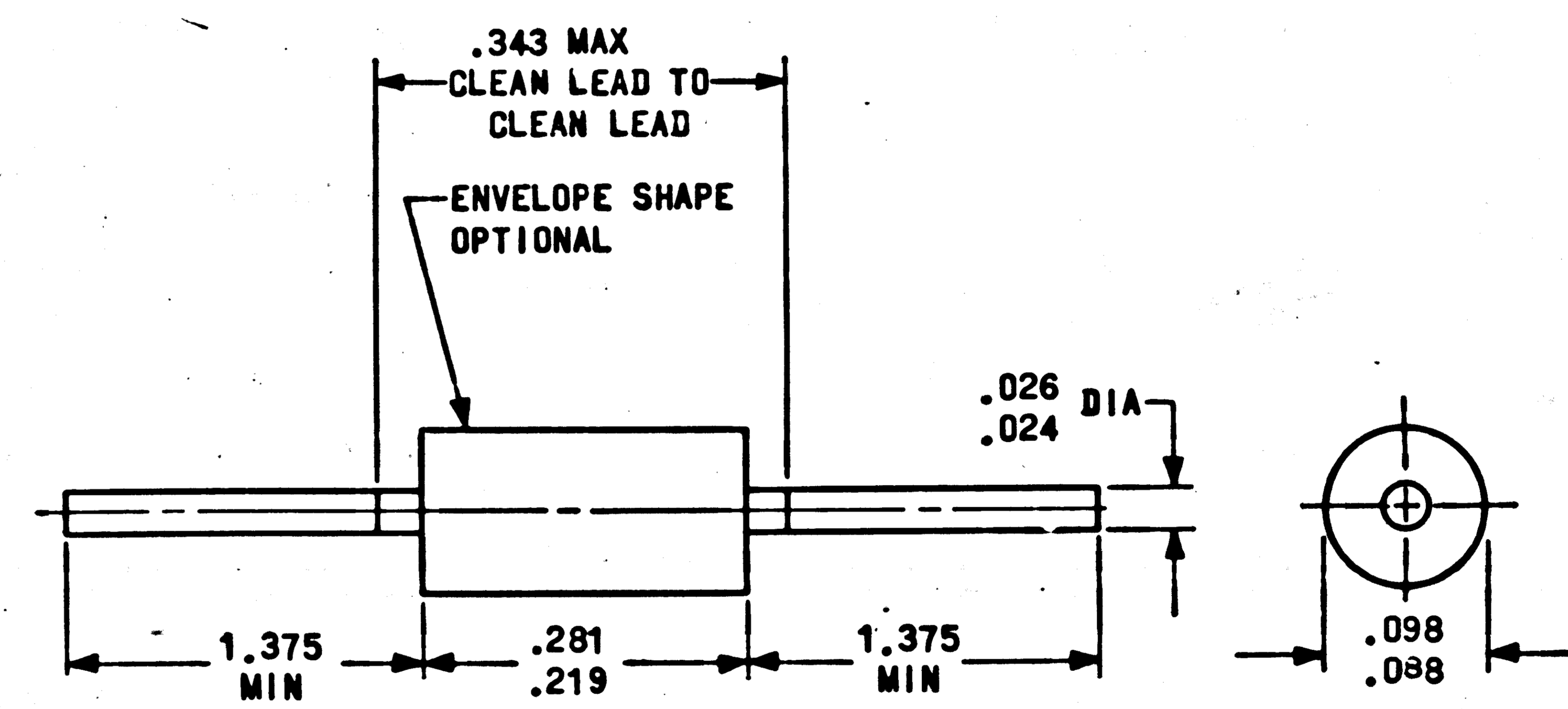
- A. EACH UNIT SHALL BE BURNED IN FOR 100 HOURS AT RATED POWER AT 125°C. THE RESISTANCE CHANGE SHALL NOT BE MORE THAN 0.1% FROM INITIAL MEASURED VALUE, OR OUT OF INITIAL TOLERANCE, AFTER BURN-IN. THE BURN-IN DATA SHALL BE INCLUDED WITH EACH SHIPMENT. THE DATA SHALL BE PRESENTED IN A MANNER THAT PROVIDES POSITIVE IDENTIFICATION OF EACH INDIVIDUAL RESISTOR WITH THE INITIAL TEST READING, THE FINAL READING AND THE PERCENT CHANGE BETWEEN THE FINAL AND INITIAL READING. THE TEST DATA SUBMITTED SHALL ALSO IDENTIFY PARTS THAT FAIL TO MEET THE SPECIFIED REQUIREMENTS.

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

FOSTER

1010733

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	INITIAL RELEASE CLASS A PER TDRR 08768		
A	REVISED PER TDRR 10368		
B	REVISED PER TDRR 19132		
C	REVISED PER TDRR 23461		



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE MASS Contract NAS 9-497		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN PATTERSON DATE 2-FEB-64 CHECKED FOSTER 6-FEB-64 APPROVAL A. H. Foster 5/26/64		RESISTOR, FIXED, FILM	
DO NOT SCALE THIS DRAWING MATERIAL SEE REQUIREMENTS		SPECIFICATION CONTROL DRAWING	
HEAT TREATMENT NONE		CODE IDENT NO. 80230	SIZE C
FINAL FINISH NONE		NASA DRAWING NO. 1010733	
MIT APPROVAL [Signature]		SCALE NONE	WT
APPLICATION		SHEET 1 OF 3	

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1010733

REVISIONS 08765			
SYM	DESCRIPTION	DATE	APPROVAL
-	INITIAL RELEASE CLASS A PER TDRR 08768	7/24/64	WLR
A	REVISED PER TDRR 10368	10/27/64	WLR
B	REVISED PER TDRR 19132	11/16/65	WLR
C	REVISED PER TDRR 23461	11-16-65	WLR

TABLE I

DASH NUMBER	RESISTANCE (OHMS) ± 0.1%
1	97.41
2	97.70
3	196.8
4	399.3
5	409.5
6	8K
7	16K
8	27.06K
9	32K
10	65.33K
11	100K
12	25K
13	50K
14	475Ω
15	1.9K
16	866.9K
17	128.15K
18	866.9

TABLE II

DASH NUMBER	RESISTANCE (OHMS) ± 1.0%
101	2K
102	2.6K
103	4K
104	8K
105	10K
106	11K
107	12K
108	13K
109	14K
110	15K
111	16K
112	17K
113	18K
114	19K
115	20K
116	75K
117	100K
118	150K
119	200K

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FWD NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>J. Cowley</i> DATE <i>22-64</i>		RESISTOR, FIXED, FILM	
CHECKED <i>A. M. Oates</i> 5-25-64		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>A. G. ...</i> 5-26-64		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL <i>[Signature]</i> 11/16/65		80230	1010733
NEXT ASSY		SIZE	SHEET
USED ON		C	2 OF 3
APPLICATION		SCALE	WT

