

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 FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR 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.

1010364

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-	TAKEN FROM BUWEP DWG 2318759		

NOTES:

1. REQUIREMENTS:

A. UNITS SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-R-10509 AND MIL-R-10509/1, CHARACTERISTICS C AND E AS INDICATED WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED HEREIN.

B: EXCEPTIONS:

- (1) QUALIFICATION TESTING IS NOT REQUIRED.
- (2) LEAD MATERIAL SHALL BE IRON-NICKEL ALLOY, COPPER CLAD, GOLD PLATED PER NASA DOCUMENT PS 1015401. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH LOT SHIPPED.
- (3) UNIT MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH STANDARD MIL-STD-130 WITH THE MANUFACTURERS IDENTIFICATION, TYPE NUMBER, RESISTANCE VALUE, RESISTANCE TOLERANCE AND RESISTANCE TEMPERATURE CODE, T-2 FOR 50 PPM/°C AND T-9 FOR 25 PPM/°C.

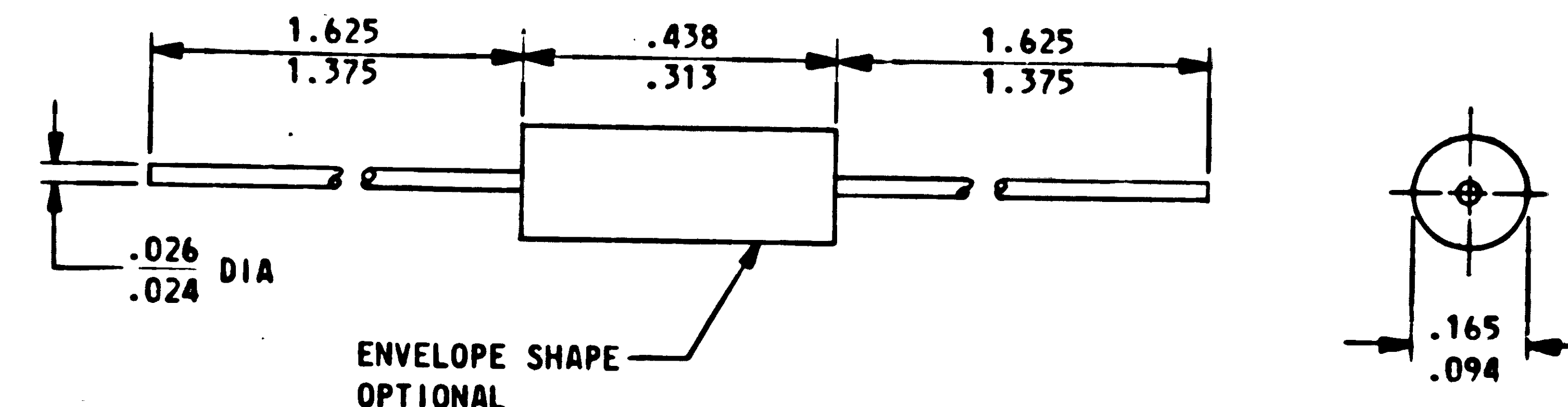
C. ADDITIONS:

- (1) UNITS SHALL BE CAPABLE OF MEETING THE ENVIRONMENTAL REQUIREMENTS OF NASA DOCUMENT ND 1002000.
- (2) SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS OF NASA DOCUMENT PS 1015404, SECTION
- (3) RESISTANCE TOLERANCE: PLUS OR MINUS 1.0 PERCENT.
- (4) EACH LEAD SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING LEAD BEND TEST: THE COMPONENT BODY SHALL BE HELD IN A VERTICAL POSITION WITH A 2 POUND WEIGHT SUSPENDED FROM THE LEAD UNDER TEST. 2 CYCLES OF BENDS SHALL BE ACCOMPLISHED, A CYCLE CONSISTING OF MOVING THE BODY OF THE UNIT, WHILE IN THE SAME PLANE, THROUGH 90 DEGREES IN ONE DIRECTION, THEN 180 DEGREES IN THE OPPOSITE DIRECTION AND BACK 90 DEGREES TO THE ORIGINAL POSITION. NO MECHANICAL DAMAGE OR LACK OF PERFORMANCE SHALL BE EVIDENCED AFTER THE TEST.
- (5) EACH LEAD SHALL BE CAPABLE OF WITHSTANDING AN AXIAL PULL OF 4 POUNDS MINIMUM.

2. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00169 DATE 12.19.62



ORIGINAL SOURCE OF SUPPLY:

ELECTRA MANUFACTURING COMPANY
KANSAS CITY, MISSOURI
CODE IDENT NO. 19701
TYPE MF 1/8

REV-	REV-	REV-	REV-
SHEET 1	SHEET 2	SHEET 3	SHEET 4

REVISION STATUS OF SHEETS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	±	±
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTES		
HEAT TREATMENT		
NONE		
FINAL FINISH		
NONE		
NEXT ASSY	USED ON	APPLICATION

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. DWG. NO. CONTRACT		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Ray Wheeler</i> DATE 26 Nov 62 CHECKED <i>H. Maynard</i> 11 DEC 62 APPROVAL <i>J. J. Cushman</i> 19 Dec 62		RESISTOR, FIXED, FILM SPECIFICATION CONTROL DRAWING	
NASA APPROVAL <i>W. J. Adams</i> 12-18-62		CODE IDENT NO. SIZE C	NASA DRAWING NO. 1010364
MIT APPROVAL <i>W. J. Adams</i> 12-18-62		SCALE NONE WT	SHEET 1 OF 3

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1010364

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

DASH NUMBER			DASH NUMBER			DASH NUMBER			DASH NUMBER			DASH NUMBER		
CHARACTERISTIC	RESISTANCE	RESISTANCE	CHARACTERISTIC	RESISTANCE	RESISTANCE	CHARACTERISTIC	RESISTANCE	RESISTANCE	CHARACTERISTIC	RESISTANCE	RESISTANCE	CHARACTERISTIC	RESISTANCE	RESISTANCE
C	E	OHMS	C	E	OHMS	C	E	OHMS	C	E	OHMS	C	E	OHMS
381	382	4750	463	464	12,700	545	546	34,000	627	628	90,900	709	710	243,000
383	384	4870	465	466	13,000	547	548	34,800	629	630	93,100	711	712	249,000
385	386	4990	467	468	13,300	549	550	35,700	631	632	95,300	713	714	255,000
387	388	5110	469	470	13,700	551	552	36,500	633	634	97,600	715	716	261,000
389	390	5230	471	472	14,000	553	554	37,400	635	636	100,000	717	718	267,000
391	392	5360	473	474	14,300	555	556	38,300	637	638	102,000	719	720	274,000
393	394	5490	475	476	14,700	557	558	39,200	639	640	105,000	721	722	280,000
395	396	5620	477	478	15,000	559	560	40,200	641	642	107,000	723	724	287,000
397	398	5760	479	480	15,400	561	562	41,200	643	644	110,000	725	726	294,000
399	400	5900	481	482	15,800	563	564	42,200	645	646	113,000	727	728	301,000
401	402	6040	483	484	16,200	565	566	43,200	647	648	115,000	729	730	309,000
403	404	6190	485	486	16,500	567	568	44,200	649	650	118,000	731	732	316,000
405	406	6340	487	488	16,900	569	570	45,300	651	652	121,000	733	734	324,000
407	408	6490	489	490	17,400	571	572	46,400	653	654	124,000	735	736	332,000
409	410	6650	491	492	17,800	573	574	47,500	655	656	127,000	737	738	340,000
411	412	6810	493	494	18,200	575	576	48,700	657	658	130,000	739	740	348,000
413	414	6980	495	496	18,700	577	578	49,900	659	660	133,000	741	742	357,000
415	416	7150	497	498	19,100	579	580	51,100	661	662	137,000	743	744	365,000
417	418	7320	499	500	19,600	581	582	52,300	663	664	140,000	745	746	374,000
419	420	7500	501	502	20,000	583	584	53,600	665	666	143,000	747	748	383,000
421	422	7680	503	504	20,500	585	586	54,900	667	668	147,000	749	750	392,000
423	424	7870	505	506	21,000	587	588	56,200	669	670	150,000	751	752	402,000
425	426	8060	507	508	21,500	589	590	57,600	671	672	154,000	753	754	412,000
427	428	8250	509	510	22,100	591	592	59,000	673	674	158,000	755	756	422,000
429	430	8450	511	512	22,600	593	594	60,400	675	676	162,000	757	758	432,000
431	432	8660	513	514	23,200	595	596	61,900	677	678	165,000	759	760	442,000
433	434	8870	515	516	23,700	597	598	63,400	679	680	169,000	761	762	453,000
435	436	9090	517	518	24,300	599	600	64,900	681	682	174,000	763	764	464,000
437	438	9310	519	520	24,900	601	602	66,500	683	684	178,000	765	766	475,000
439	440	9530	521	522	25,500	603	604	68,100	685	686	182,000	767	768	487,000
441	442	9760	523	524	26,100	605	606	69,800	687	688	187,000	769	770	499,000
443	444	10,000	525	526	26,700	607	608	71,500	689	690	191,000			
445	446	10,200	527	528	27,400	609	610	73,200	691	692	196,000			
447	448	10,500	529	530	28,000	611	612	75,000	693	694	200,000			
449	450	10,700	531	532	28,700	613	614	76,800	695	696	205,000			
451	452	11,000	533	534	29,400	615	616	78,700	697	698	210,000			
453	454	11,300	535	536	30,100	617	618	80,600	699	700	215,000			
455	456	11,500	537	538	30,900	619	620	82,500	701	702	221,000			
457	458	11,800	539	540	31,600	621	622	84,400	703	704	226,000			
459	460	12,100	541	542	32,400	623	624	86,600	705	706	232,000			
461	462	12,400	543	544	33,200	625	626	88,700	707	708	237,000			

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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>Ray Whelan</i> DATE <i>26 Dec 62</i>		RESISTOR, FIXED, FILM	
CHECKED <i>F. Maynard</i> 11 DEC 62		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>P. J. Cashman</i> 19 DEC 62		CODE IDENT NO. SIZE NASA DRAWING NO.	
APPROVAL _____		C 1010364	
HEAT TREATMENT		SCALE NONE WT	
NASA APPROVAL <i>W. J. Rhine</i> 12-18-62		SHEET 3 OF 3	
FINAL FINISH		MIT APPROVAL <i>W. J. Rhine</i> 12/19/62	
NEXT ASSY	USED ON	APPLICATION	

1010364