

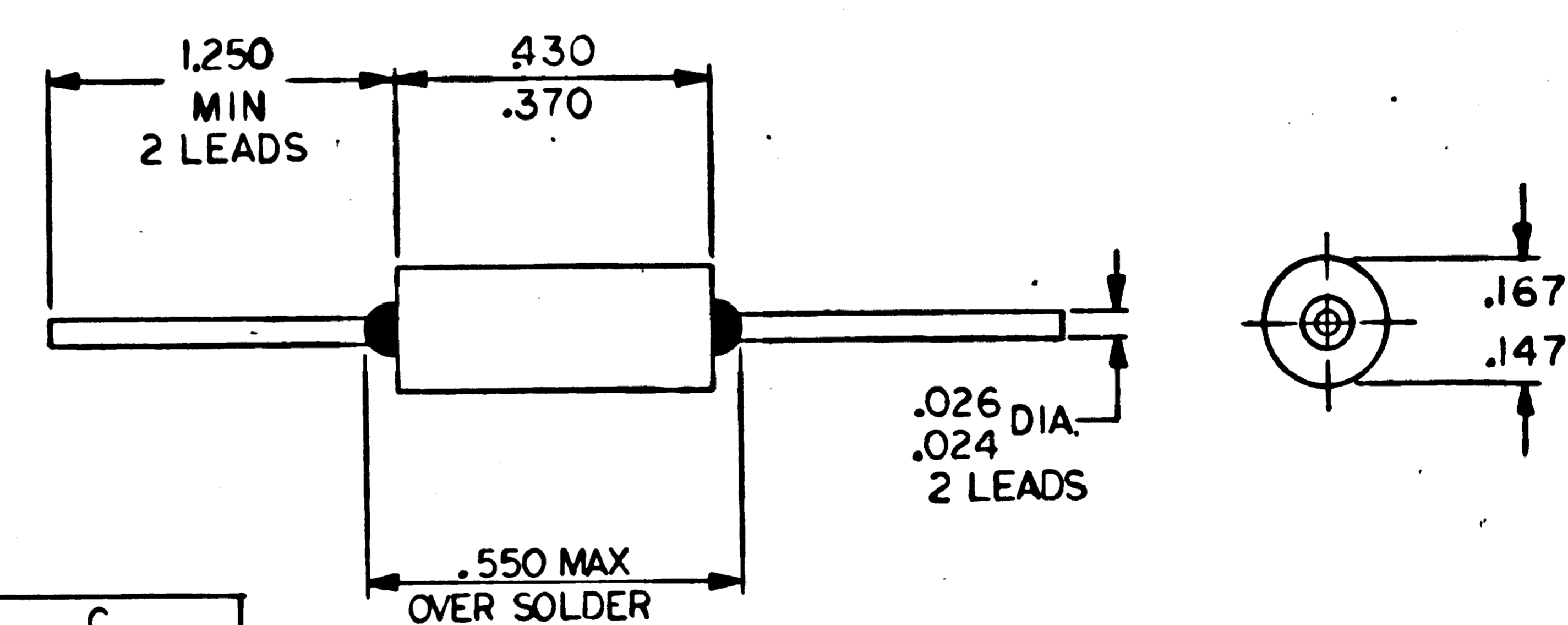
NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR 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 THEREBY.

REVISIONS B 00803 4-10-63			
SYM	DESCRIPTION	DATE	APPROVAL
-			
A	UPGRADED TO CLASS A TDRR 00952 24 APR 63 WK		
B	REVISED PER TDRR 02594 14 APR 63 WK		
C	REVISED PER TDRR 02921 5 APR 63 WK		

REQUIREMENTS:

1. GENERAL:
 - A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - B. UNITS SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF MIL-C-15305, GRADE 1, CLASS B, EXCEPT AS AND IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN. QUALIFICATION APPROVAL AND GROUP B AND C TESTS ARE NOT APPLICABLE.
 - C. THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 2.
 - D. UNITS SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF MIL-C-15305
 - E. MARKING: UNITS SHALL BE MARKED (COLOR CODED) PER MIL-C-15305, OR PRINTED WITH MANUFACTURER'S NAME OR TRADE MARK, INDUCTANCE VALUE AND TOLERANCE.
 - F. PACKAGING AND PACKING: LEVEL C PER MIL-C-15305 (BEST COMMERCIAL PRACTICE).
MARKING: UNIT PACKAGES, INTERMEDIATE PACKAGES, AND EXTERIOR SHIPPING CONTAINERS SHALL BE MARKED WITH THE MANUFACTURER'S NAME AND/OR SYMBOL, PART NUMBER AND THE NASA DRAWING NUMBER, DASH NUMBER AND REVISION LETTER.
2. ACCEPTANCE AND INSPECTION:
 - A. LEAD DATA: SHALL BE GOLD PLATED DUMET PER ND 1015401. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.
 - B. ELECTRICAL CHARACTERISTICS: PER TABLE I.
INDUCTANCE, L_{eff} (+25°C)
RESISTANCE, R_{DC} (STABILIZE FOR 24 HOURS BEFORE MAKING READING.)
 - C. DIELECTRIC VOLTAGE (SEA LEVEL): 1400 VOLTS RMS.
70,000 FEET: 360 VOLTS RMS.
 - D. MARKING: PER PARAGRAPH 1 E.
3. DESIGN:
 - A. AMBIENT TEMPERATURE: +90°C MAXIMUM.
 - B. WORKING VOLTAGE: 500 VOLTS MAXIMUM.
 - C. INDUCTANCE, EFFECTIVE (-55°C TO +125°C): PER TABLE I, EXCEPT TOTAL TOLERANCE SHALL BE ± 15 PERCENT.
 - D. ALTITUDE: 70,000 FEET.
 - E. LEAD PULL: FIVE (5) POUNDS, MINIMUM.
4. SPECIAL CONDITIONING (BY SUPPLIER):
 - A. ALL COILS SHALL BE BURNED IN FOR 50 HOURS AT I_{DC} = RATED (SEE TABLE I) AT AN AMBIENT TEMPERATURE OF +90°C. INDUCTANCE CHANGE AT CONCLUSION OF BURN-IN SHALL NOT EXCEED INITIAL PURCHASE TOLERANCE, AFTER 24 HOUR WAITING PERIOD.
 - B. ALL COILS SHALL BE TEMPERATURE CYCLED THROUGH 5 CYCLES WITH NOT MORE THAN A 15 SECOND TRANSFER TIME AS FOLLOWS: 20 MINUTES AT -55°C
20 MINUTES AT +125°C

INDUCTANCE AND Q CHANGES AT CONCLUSION OF TEMPERATURE CYCLING SHALL NOT EXCEED INITIAL PURCHASE TOLERANCE AFTER A 24 HOUR STABILIZATION PERIOD.



C	C
B	B
A	A
-	-
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

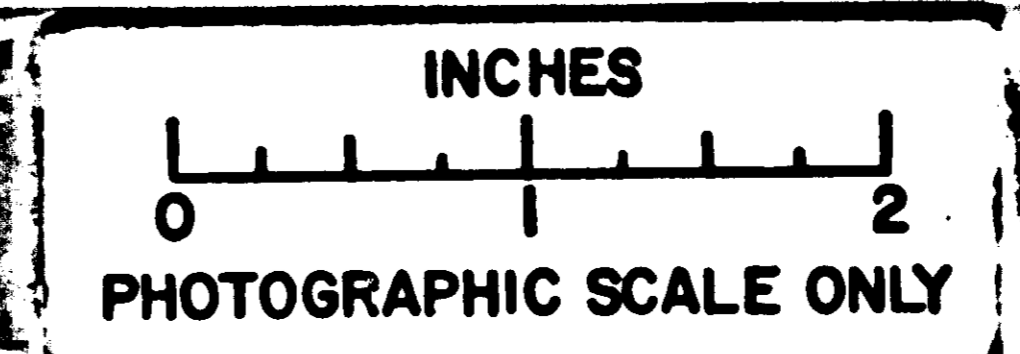
PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

POST

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

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. CONTRACT	
DRAWN R. Kase	DATE 5 MAR 63
CHECKED A. G. [Signature]	21 MAR 63
APPROVAL [Signature]	21 MAR 63
NASA APPROVAL [Signature]	10 APR 63
MIT APPROVAL [Signature]	10 APR 63

LIST OF MATERIALS	
MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
COIL, RF, CHOKE	
SPECIFICATION CONTROL DRAWING	
CODE IDENT NO.	SIZE
	C
NASA DRAWING NO.	1010406
SCALE NONE	WT
SHEET 1 OF 2	



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TABLE I

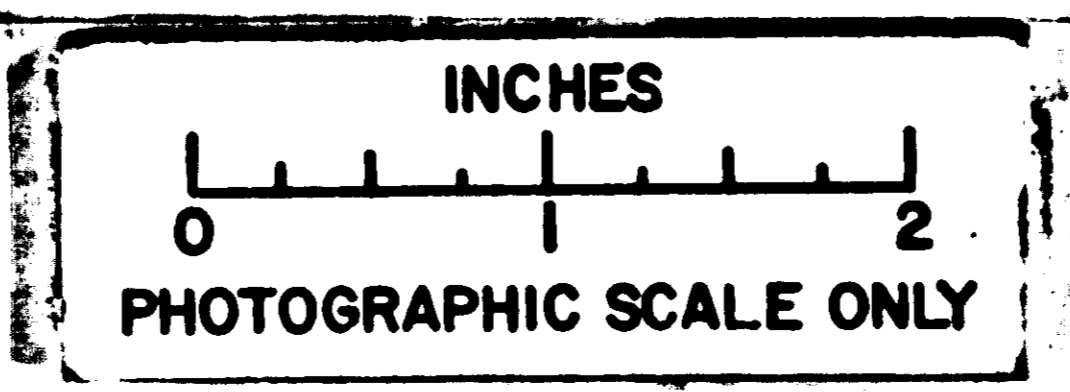
ELECTRICAL CHARACTERISTICS AT +25°C, UNLESS OTHERWISE SPECIFIED

DASH NUMBER	Leff ± 10%	Qeff MIN	f	f ₀ MIN	C _d ± 20%	R _p MIN	R _p MIN	R _{DC} MAX	IDC** MAX	IDC* (INCR.)		
	uH	—	mc	mc	pf	k Ω	mc	k Ω	Ω	mA		
-1	100,000	14.4	.079	0.11	12.2	918	0.060	1140	0.14	678.0	13	2.5
-2	68,000	18.4	.079	0.13	13.2	675	0.079	1020	0.16	580.0	16	3.0
-3	47,000	18.4	.079	0.16	13.5	623	0.10	980	0.20	473.0	19	3.2
-4	33,000	21.6	.079	0.19	13.3	780	0.15	850	0.24	343.0	21	3.7
-5	22,000	21.6	.079	0.25	11.6	536	0.15	710	0.31	274.0	24	5.0
-6	100	41.6	2.5	10.00	1.7	62	5	44	12.5	3.5	168	60
-7	8.2	40.0	7.9	50.00	.78	45	20	48	57.0	1.32	344	180
-8	1.0	37.6	25.0	140.00	.84	13	75	12	164.0	.070	1200	630
-9	1.5	36.0	7.9	115.00	.83	17	50	17	135.0	.12	1000	530
-10	2.2	36.0	7.9	100.00	.73	21	40	25	112.0	.19	820	430
-11	3.9	35.2	7.9	75.00	.73	33	30	32	84.0	.40	590	310
-12	22.0	36.8	2.5	41.00	.48	9	15	10	52.0	.96	319	125
-13	33.0	36.0	2.5	34.00	.48	14	12	13	40.0	1.37	277	100
-14	47.0	41.6	2.5	27.00	.48	19	12	16	34.0	2.11	218	85
-15	0.47	35.2	25	235.00	.67	27	100	35	230.	0.1	1000	1000
-16	0.39	35.2	25	255.00	.67	23	100	34	230.	.085	1100	1100
-17	0.33	36.8	25	280.00	.67	19	100	33	230.	.075	1300	1300
-18	0.27	37.6	25	290.00	.67	16	100	31	230.	.045	1500	1500

* CURRENT TO CAUSE FIVE PERCENT REDUCTION IN INDUCTANCE.
 ** DERATE LINEARLY FROM +90°C TO +125°C.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	—	—	—
A	UPGRADED TO CLASS A TDRR 02952	24 APR 63	WJ
B	REVISED PER TDRR 02594	14 APR 63	WJ
C	REVISED PER TDRR 02921	6 APR 63	WJ

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>R. Kane</i> DATE 5 APR 63		COIL, RF, CHOKE	
CHECKED <i>A. Lyons</i> 20 APR 63		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>[Signature]</i> 4/9/63		NASA DRAWING NO. 1010406	
HEAT TREATMENT		CODE IDENT NO. C	SCALE NONE
FINAL FINISH		SIZE	WT
MIT APPROVAL <i>[Signature]</i> 4/9/63		SHEET 2 OF 2	



4 3 2 1

4 3 2 1