

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 THE ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

9 1010401

REVISIONS B 00803 4-10-63			
SYM	DESCRIPTION	DATE	APPROVAL
A	UPGRADED TO CLASS A	10/2/63	W.K.
B	REVISED PER TDRR 02594	11/16/63	W.K.
C	REVISED PER TDRR 02921	5/16/63	W.K.
D	REVISED PER TDRR 07844	1/21/64	W.K.
E	REVISED PER TDRR 15574	2/2/65	W.K.
F	REVISED PER TDRR 16992	12/16/65	W.K.
G	REVISED PER TDRR 22571	10/28/65	W.K.

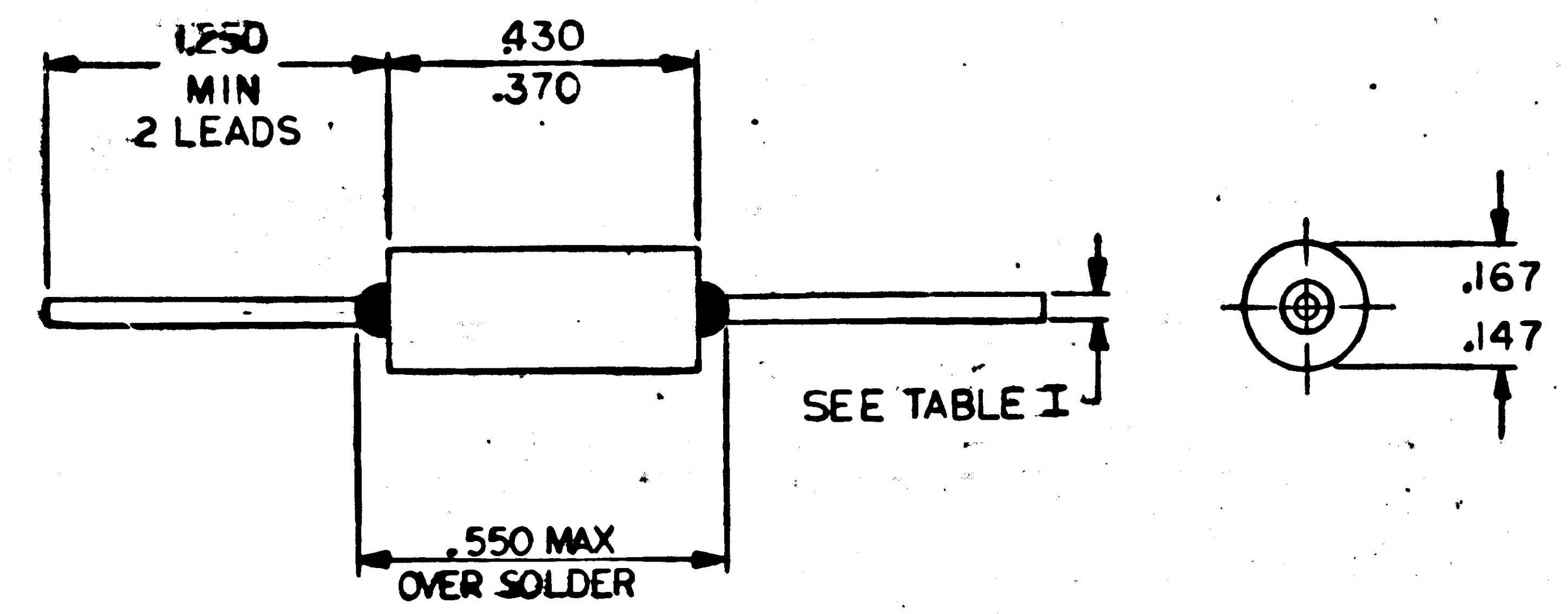
REQUIREMENTS:

- GENERAL:
 - INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
 - 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.
 - THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 2.
 - UNITS SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF MIL-C-15305
 - PRESERVATION, PACKAGING, PACKING AND CONTAINER MARKING PER ND 1002215, CLASS 1, CODE 1.
- ACCEPTANCE AND INSPECTION:
 - LEAD DATA: SHALL BE GOLD PLATED DUMET PER ND 1015401. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.
 - ELECTRICAL CHARACTERISTICS: PER TABLE I.
INDUCTANCE, L_{eff} (+25°C)
RESISTANCE, R_{DC} (STABILIZE FOR 24 HOURS BEFORE MAKING READING.)
 - DIELECTRIC VOLTAGE (SEA LEVEL): 1400 VOLTS RMS. 70,000 FEET: 360 VOLTS RMS.
 - MINIMUM MARKING: UNITS SHALL BE MARKED PERMANENTLY AND LEGIBLY WITH THE LAST THREE DIGITS OF THE NASA DRAWING NUMBER AND APPLICABLE DASH NUMBER, REVISION LETTER, SERIAL NUMBER AND/OR LOT CODE NUMBER. MANUFACTURER'S PART OR TYPE NUMBER MAY APPEAR ON PART AND PACKAGE.
- DESIGN:
 - AMBIENT TEMPERATURE: + 90°C MAXIMUM.
 - WORKING VOLTAGE: 500 VOLTS MAXIMUM.
 - INDUCTANCE, EFFECTIVE (-55°C TO +125°C): PER TABLE I, EXCEPT TOTAL TOLERANCE SHALL BE ± 15 PERCENT.
 - ALTITUDE: 70,000 FEET.
 - LEAD PULL: FIVE (5) POUNDS, MINIMUM.
- SPECIAL CONDITIONING (BY SUPPLIER):

EACH LOT SHALL BE TEMPERATURE CYCLED BY THE VENDOR AND TEST DATA SUPPLIED WITH EACH LOT.

STEP 1. MEASURE AND RECORD THE INDUCTANCE AND Q. VALUE AFTER 24 HOUR WAITING PERIOD.

STEP 2. PERFORM SIN (6) CYCLES, EACH CYCLE CONSISTS OF 125°C FOR 30 MIN, 25°C FOR 15 MIN, -55°C FOR 30 MIN AND RETURN TO 25°C FOR 15 MIN. DURING THE 6TH CYCLE MEASURE INDUCTANCE AND Q WITHIN 2 MINUTES AFTER REMOVAL FROM THE EXTREME TEMPERATURE OF 125°C AND -55°C. IF THE INDUCTANCE IS NOT WITHIN 10% OF THE INITIAL VALUE THE PART IS REJECTED. WITHIN 1/2 HOUR AFTER TERMINATION OF THE SEVENTH CYCLE THE INDUCTANCE SHOULD BE WITHIN THE SPECIFIED LIMITS.



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

MASTER

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: R. Kane DATE: 5 Aug 63		COIL, RF, CHOKE SPECIFICATION CONTROL DRAWING	
CHECKED: [Signature] DATE: 20 Aug 63			
APPROVAL: [Signature] DATE: 1/19/64		NASA DRAWING NO. 1010406	
MATERIAL: SEE NOTES		CODE IDENT NO. 80230	SIZE C
HEAT TREATMENT: NONE		SCALE NONE WT	
FINAL FINISH: NONE		SHEET 1 OF 2	
NEXT ASSY	USED ON		
APPLICATION			

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TABLE I
ELECTRICAL CHARACTERISTICS AT +25°C. UNLESS OTHERWISE SPECIFIED

DASH NUMBER	Leff ± 10%		Qeff		f		fo		RDC		Ind*		LEAD DIA
	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MAX	MAX	(INCR.)		
	uH		mc	mc					Ω	Ω	mA		
-1	100,000	10.0	.079	0.11					678.0	11	1.3	.026 .024	
-2	68,000	18.4	.079	0.13					580.0	11	1.5		
-3	47,000	18.4	.079	0.16					473.0	11	1.6		
-4	33,000	21.6	.079	0.19					343.0	11	1.9		
-5	22,000	21.6	.079	0.25					274.0	11	2.5		
-6	100	41.6	2.5	10.00					3.5	100	20		
-7	8.2	40.0	7.9	50.00					1.32	50	60		
-8	1.0	37.6	7.9	140.00					.070	120	210		
-9	1.5	36.0	7.9	115.00					.12	0	176		
-10	2.2	36.0	7.9	100.00					.19	02	183		
-11	3.9	35.2	7.9	75.00					.40	59	103		
-12	22.0	36.8	2.5	41.00					.96	31	427		
-13	33.0	36.0	2.5	34.00					1.37	77	380		
-14	47.0	41.6	2.5	27.00					2.11	21	28		
-15	0.47	35.2	25	235.00					0.1	00	333	.021 .019	
-16	0.39	35.2	25	255.00					.085		366		
-17	0.33	36.8	25	280.00					.075		433		
-18	0.27	37.6	25	290.00					.045		500		
-19	0.68	33.6	25	190.00					.7		250		

1010406

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	UPGRADED TO CLASS A TDRR 00953	2/1/63	WHL
B	REVISED PER TDRR 02594	1/10/63	WHL
C	REVISED PER TDRR 02921	6/26/63	WHL
D	REVISED PER TDRR 07644	4/21/64	WHL
E	REVISED PER TDRR 15574	2/1/65	WHL
F	REVISED PER TDRR 16992	3/2/65	WHL
G	REVISED PER TDRR 22571	10/27/65	WHL

* CURRENT TO CAUSE FIVE PERCENT REDUCTION IN INDUCTANCE.
** DERATE LINEARLY FROM +90°C TO +70°C.

REVISION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH
NEXT ASSY USED ON
APPLICATION

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. Rose</i> DATE <i>5/2/63</i>		COIL, RF, CHOKE SPECIFICATION CONTROL DRAWING	
CHECKED <i>A. G. Jones</i> DATE <i>20 MAR 63</i>			
APPROVAL <i>R. Rose</i> DATE <i>4/1/63</i>		NASA DRAWING NO. 1010406	
NASA APPROVAL <i>[Signature]</i>		CODE IDENT NO. 80230	SIZE C
MIT APPROVAL <i>[Signature]</i>		SCALE NONE	WT
		SHEET 2 OF 2	