

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 THERETO.

REQUIREMENTS:

1. 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.
- THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 2.
- UNITS SHALL MEET THE QUALIFICATION REQUIREMENTS OF ND 1002047.
- MARKING: UNITS SHALL BE MARKED (COLOR CODED) PER MIL-C-15305.
- 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:

- 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}
- DIELECTRIC VOLTAGE (SEA LEVEL): 1400 VOLTS RMS.
70,000 FEET: 500 VOLTS RMS.

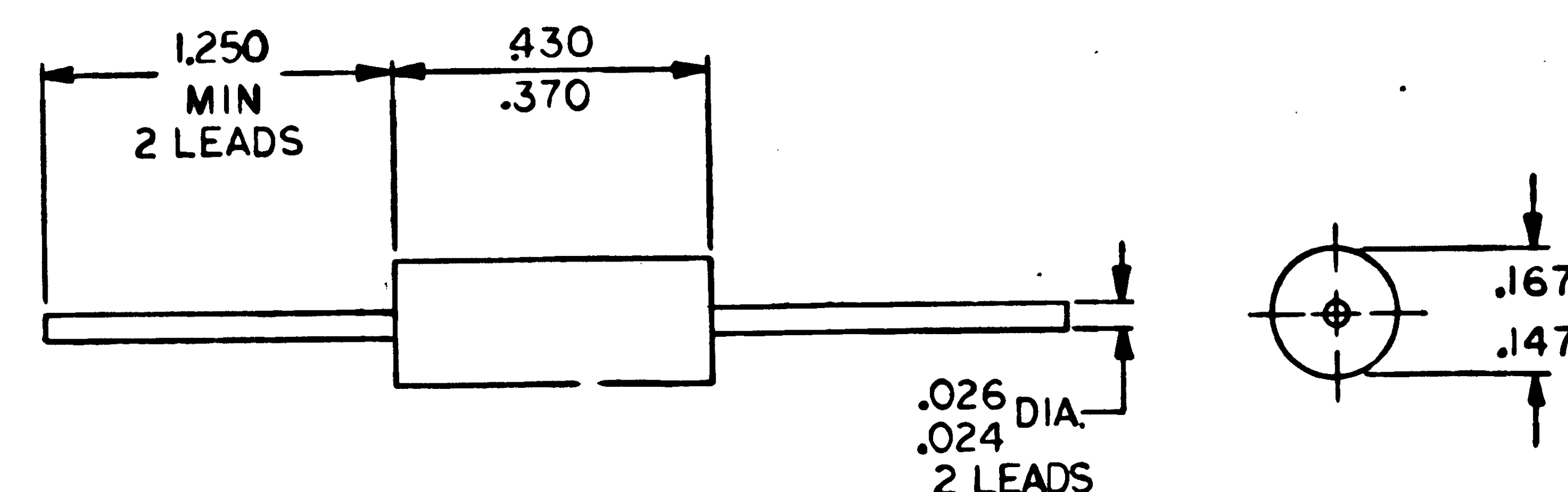
D. MARKING: PER PARAGRAPH 1 E.

3. 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.

4. SPECIAL CONDITIONING (BY SUPPLIER):

- 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.



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

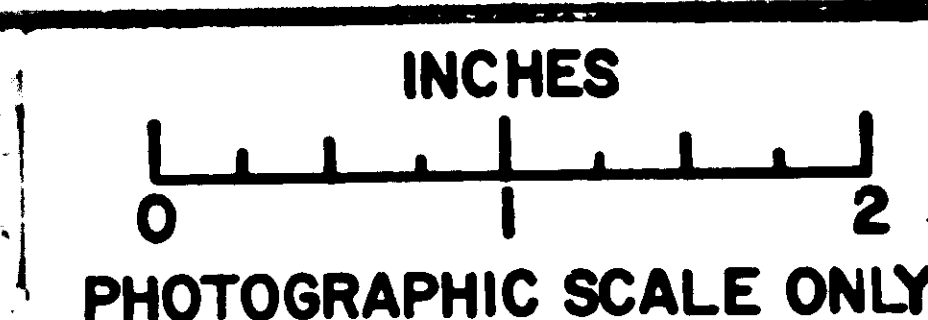
MASTER

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

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
$\pm$	$\pm$	$\pm$
DO NOT SCALE THIS DRAWING		
MATERIAL		
SEE NOTES		
HEAT TREATMENT		
NONE		
FINAL FINISH		
NONE		

QTY REQ	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 <i>4/5/63</i>		COIL, RF, CHOKE	
CHECKED <i>A. Kane</i> DATE <i>2/11/63</i>		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>[Signature]</i> DATE <i>3/19/63</i>		NASA DRAWING NO. 1010406	
NASA APPROVAL <i>[Signature]</i> DATE <i>4/10/63</i>		CODE IDENT NO. C	SIZE
MIT APPROVAL <i>[Signature]</i> DATE <i>4/10/63</i>		SCALE NONE	WT
		SHEET 1 OF 2	



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2

1

1010406

1010406

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

DASH NUMBER	Leff ± 10% uH	Qeff MIN —	f mc —	f0 MIN mc	Cd ± 10% pf	Rp MIN k Ω	Rp MIN mc	Rp MIN k Ω	RDC MAX Ω	IDC** MAX mA	IDC* (INCR.) mA	
-1	100,000	14.4	.079	0.11	12.2	918	0.060	1140	0.14	678.0	22	3.0
-2	68,000	18.4	.079	0.13	13.2	675	0.079	1020	0.16	580.0	24	4.0
-3	47,000	18.4	.079	0.16	13.5	623	0.10	980	0.20	473.0	26	5.5
-4	33,000	21.6	.079	0.19	13.3	780	0.15	850	0.24	343.0	30	7.5
-5	22,000	21.6	.079	0.25	11.6	536	0.15	710	0.31	274.0	33	9
-6	100	41.6	2.5	10.00	1.7	62	5	44	12.5	3.12	325	120
-7	8.2	40.0	7.9	50.00	.78	45	20	48	57.0	1.32	475	475
-8	1.0	37.6	25.0	140.00	.84	13	75	12	164.0	.070	1900	1900
-9	1.5	36.0	7.9	115.00	.83	17	50	17	135.0	.12	1300	1300
-10	2.2	36.0	7.9	100.00	.73	21	40	25	112.0	.19	1100	1100
-11	3.9	35.2	7.9	75.00	.73	33	30	32	84.0	.40	750	750
-12	22.0	36.8	2.5	41.00	.48	9	15	10	52.0	.96	600	220
-13	33.0	36.0	2.5	34.00	.48	14	12	13	40.0	1.37	490	190
-14	47.0	41.6	2.5	27.00	.48	19	12	16	34.0	2.11	400	175
-15	0.47	35.2	25	235.00	.67	27	100	35	230.	.25	1000	1000
-16	0.39	35.2	25	255.00	.67	23	100	34	230.	.18	1100	1100
-17	0.33	36.8	25	280.00	.67	19	100	33	230.	.13	1300	1300
-18	0.27	37.6	25	290.00	.67	16	100	31	230.	.11	1500	1500

• CURRENT TO CAUSE FIVE PERCENT REDUCTION IN INDUCTANCE.

•• DERATE LINEARLY FROM +90°C TO +150°C.

QTY REQD

PART OR IDENTIFYING NO.

NOMENCLATURE OR DESCRIPTION

FIND NO.

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

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

COIL, RF, CHOKE
SPECIFICATION CONTROL DRAWING

NEXT ASSY USED ON APPLICATION

NASA APPROVAL
MIT APPROVAL

CODE IDENT NO. SIZE
C

NASA DRAWING NO.
1010406

SCALE NONE WT

SHEET 2 OF 2

4

3

2

1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY