

(1) HIGH TEMPERATURE: 71°C OPERATING

(2) LOW TEMPERATURE: -18°C OPERATING

(3) VIBRATION: 10 TO 2000 CPS, 20 6 (PER MIL-STD-202, METHOD 204 A, CONDITION D)

(4) REDUCED PRESSURE: 96 HOURS AT A PRESSURE OF 10-4
MM OF MERCURY.

(5) WORKMANSHIP: THE WIRE SHALL BE UNIFORM IN QUALITY AND TEMPER CLEAN, ROUND AND SMOOTH AND FREE FROM FOREIGN MATERIALS, AND OTHER DEFECTS.

FREQUENCY RESPONSE TEST CIRCUIT

-SHALL BE TOTAL SECONDARY

- C. DC UNBALANCE IN PRIMARY: PER TABLE I
- D. RATED POWER LEVEL: 50 MW
- E. WORKING VOLTAGE BETWEEN WINDINGS AND FROM WINDINGS TO CASE: 175 VOLTS MAXIMUM INSTANTANEOUS.
- F. BEND TEST(SAMPLE): THIS IS A DESTRUCTIVE TEST, UNITS SUBJECTED TO THIS TEST SHALL NOT BE SHIPPED. HOLD THE COMPONENT IN SUCH A MANNER THAT A TWO(2) POUND WEIGHT MAY BE SUSPENDED IN AN AXIAL DIRECTION FROM THE LEAD UNDER TEST. THE BEND CYCLE (ONE(1)) REQUIRED, SHALL BE ACCOMPLISHED BY MOVING THE BODY OF THE UNIT WHILE IN THE SAME PLANE, THRU 90° IN ONE DIRECTION THEN BACK 180° IN THE OPPOSITE DIRECTION AND BACK 90° TO THE ORIGINAL POSITION.
- 4. SPECIAL CONDITIONING, 100% (BY MANUFACTURER):
 - A. TRANSFORMER SHALL BE TEMPERATURE CYCLED FOR 5 CYCLES PER MIL-STD-202, METHOD 102A EYCEPT THAT THE TEMPERATURES SHALL BE -55°C, +25°C AND 130°C AND EXPOSURE TIME SHALL BE 15 MINUTES AT EACH TEMPERATURE. DURING THE LAST CYCLE THE UNIT SHALL BE MONITORED FOR CONTINUITY. AFTER STABILIZATION AT ROOM TEMPERATURE UNIT SHALL PASS NORMAL INSPECTION TESTS. RESISTANCE AFTER STABILIZATION SHALL NOT CHANGE MORE THAN 4% FROM INITIAL MEASURED VALUE. THE AFOREMENTIONED TEST DATA SHALL BE INCLUDED WITH EACH SHIPMENT. ANY LOT WITH A FAILURE RATE OF GREATER THAN 5% FOR THIS TEST (RESISTANCE) SHALL NOT BE SHIPPED.

	TABLE 1																				
NA	SA	DC RESISTANCE ±20%		PRIMARY IMPEDANCE (MINIMUM)			FREQUENCY RESPONSE										NO LOAD VOLTAGE RATIO	MAX. DC	REFERENCE	FIG.	
PART N	UMBER			0.000	7507 404 7007	FREQ	TEST			T CC	CONDITIONS				POLARITY	_	_		SCHEMATIC		
-		PRIMARY	SECONDARY	OHMS	TEST VOLTAGE -	CPS	Zs	ZL	IDC MA		BAND	WIDT	H	RESI	PONSE		PRIMARY : SECONDARY	UNBALANCE		DIAGRAM Number	
10102	91 -1	168NCT	92 <u>1</u>	1600 (Z)	5 VOLTS	300	1,500	600	3	350	CPS	TO 9	OKC	±.	1D8	1 AND 4	1.58 : 1	3	13	II	17
	-2	77.ACT	31	1130 (XL)	1 VOLT	300	600	12	4.5	300	CPS	TO 6	OKC	± 2	DB	1 AND 4	7.06:1	4.5	17	II	1
	-3	790 ACT	0.76 A	15,000 (XL)	4 VOLTS	300	8,000	3.2		+	CPS					1 AND 4	50 : 1	1	13	II	2
	-4	1050ΩCT	200ncT	10,000(Z)	4 VOLTS	300	10,000	1200	1	300	CPS	TO 6	БОКС	± 2	DB	1 AND 4	2.88:1 CT	1	13	I	+
	-5	72NCT	92NCT	800(Z)	2.8 VOLTS	300	600	600	3	300	CPS	TO 6	OKC	± 3	DB	1 AND 4	1:1 CT	3	17	I	11

		•		QTY REQD	PART OR IDENTIFYING NO.			NOMENCLATURE OR DESCRIPTION	FIND NO.				
					LIST OF MATERIALS								
•		·	<u> </u>	Dwg I	MIT NSTRUMENTATION LAB CAMBRIDGE MASS CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS TRANSFORMER, AUDIO SPECIFICATION CONTROL DRAWING							
		·		CHECK	rediction 26 June 63 VAL Shumay 2/17/63								
	NEXT ASSY	USED ON	HEAT TREATMENT	NASA	APPROVAL & 3. 8	CODE IDENT NO.	SIZE	NASA DRAWING NO. 1010291					
	APPLIC		FINAL FINISH	MIT A	PPROVAL & Wald 7/17/2	SCALE NONE WT		SHEET 2	of 2				
	3			2				1					

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

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PHOTOGRAPHIC SCALE ONLY