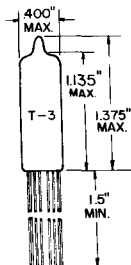


TUNG-SOL

DOUBLE TRIODE

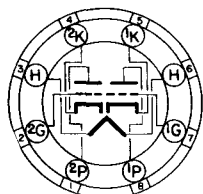
SUBMINIATURE TYPE



GLASS BULB

HEATER

ANY MOUNTING POSITION



BOTTOM VIEW

SUBMINIATURE BUTT ON

8PIN

0.017" TINNED

FLEXIBLE LEADS

8DG

THE 6021WA IS A HEATER-CATHODE TYPE MEDIUM-MU DOUBLE TRIODE OF SUBMINIATURE CONSTRUCTION CAPABLE OF OPERATION IN THE UHF REGION. IT IS DESIGNED FOR SERVICE WHERE SEVERE CONDITIONS OF HIGH TEMPERATURE AND MECHANICAL SHOCK OR VIBRATION ARE ENCOUNTERED. THE FLEXIBLE LEADS MAY BE SOLDERED OR WELDED DIRECTLY TO THE TERMINALS OF CIRCUIT COMPONENTS WITHOUT THE USE OF SOCKETS. STANDARD 8 PIN SUBMINIATURE SOCKETS MAY BE USED BY CUTTING THE LEADS TO A SUITABLE LENGTH.

RATINGS

MECHANICAL

MAXIMUM IMPACT ACCELERATION (SHOCK TEST-NOTE 3)	450	G
MAXIMUM UNIFORM ACCELERATION (CENTRIFUGE TEST-NOTE 4)	1000	G
MAXIMUM VIBRATIONAL ACCELERATION (96 HR. FATIGUE TEST-NOTE 5)	2.5	G
MAXIMUM BULB TEMPERATURE	220	°C

RATINGS

AND NORMAL OPERATION

	MIL-E-1 SYMBOL	DES. MIN.	NORM. TEST CONDI- TIONS NOTE 7	NORM. OPER- ATION NOTE 6	DES. MAX.	MIL-E-1 UNITS
HEATER VOLTAGE (NOTE 8)	Ef:	6.0	6.3	6.3	6.6	V
PLATE VOLTAGE	Eb:	---	100	100	250	Vdc
PEAK PLATE VOLTAGE	eb:	---	---	---	360	v
GRID VOLTAGE	Ec1:	-55	0	0	---	Vdc
PLATE DISSIPATION (PER PLATE)	Pp/p:	---	---	0.65	0.7	W
GRID #1 CIRCUIT RESISTANCE	Rg/g:	---	---	1.0	1.1	MEG.
HEATER-CATHODE VOLTAGE	Ehk:	-200	---	100	+200	Vdc
PLATE CURRENT (PER PLATE)	Ib/p:	0.5	---	6.5	22	mA _{dc}
GRID CURRENT (PER GRID)	Ic/c:	---	---	---	5.5	mA _{dc}
CATHODE RESISTANCE (PER UNIT)	Rk:	---	150	150	---	OHMS
TRANSCONDUCTANCE (PER PLATE)	Sm/p:	---	---	5400	---	μMHOS
AMPLIFICATION FACTOR	Mu/p:	---	---	35	---	---

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CHARACTERISTICS AND QUALITY CONTROL TESTS¹

IN THE FOLLOWING TESTS, EACH UNIT IS TESTED SEPARATELY

TEST	AQL MIL-E-1 % SYMBOL	MIN.	L.A.L.	BOG	UAL	MAX. A.L.D	MIL-E-1 UNITS
MEASUREMENTS ACCEPTANCE TESTS PART 1	COMBINED AQL=1.0% EXCLUDING MECH. AND INOPERATIVES						
HEATER CURRENT:	0.4 If:	285	---	---	---	315	mA.
HEATER-CATHODE LEAKAGE (1):							
Ehk=+100 Vdc	0.4 Ihk(1):	---	---	---	---	3.5	μ Adc
Ehk=-100 Vdc	Ihk(1):	---	---	---	---	3.5	μ Adc
GRID CURRENT:							
Eb=150 Vdc; Rk/k=300							
OHMS; Rg=1.0 MEG.	0.4 Ic(1):	---	---	---	---	0.3	μ Adc
PLATE CURRENT (1):	0.4 Ib(1):	4.5	5.6	6.5	7.3	8.5	mAdc
PLATE CURRENT (2):							
Ec1=-6.5 Vdc	0.4 Ib(2):	---	---	---	---	100	μ Adc
TRANSCONDUCTANCE (1):	0.4 Sm(1):	4450	5000	5400	5800	6350	μ MHOS
CONTINUITY TO SHORTS (NOTE 11)							
(INOPERATIVES):	0.4 ---	---	---	---	---	---	---
MECHANICAL:							
ENVELOPE (8-1)	-----	---	---	---	---	---	---
MEASUREMENTS ACCEPTANCE TESTS PART 2							
INSULATION OF ELECTRODES:							
Ef=6.3 V							
Eg-all=-100 Vdc	2.5 Rg1-all:	250	---	---	---	---	MEG.
Ep-all=-300 Vdc	Rp-all:	250	---	---	---	---	MEG.
PLATE CURRENT (1)							
DIFFERENCE BETWEEN SECTIONS:	2.5 Ib:	---	---	---	---	1.5	mAdc
TRANSCONDUCTANCE (2):							
Ef=5.7 V; (NOTE 9)	2.5 Δ_{Ef} Sm(2):	---	---	---	---	10	PERCENT
GRID EMISSION:							
Eb=250 Vdc; Rg/g=1.0 MEG; Rk/k=2200 OHMS; Ef=7.5 V; PREHEAT 5 MINUTES AT Ec=0; TEST AT Ec=-9.0 Vdc	6.5 Isc1:	---	---	---	---	0.5	μ Adc
AF NOISE:							
Esig=65 mVac; Rg=0.1 MEG.; Rp=0.01 MEG.; Rk=75 OHMS; Ck=1000 μ f; UNITS CONNec- TED IN PARALLEL	2.5 EB:	---	---	---	---	17	VU
PULSE EMISSION (1):							
Eb=150 Vdc; Ec1=-25 Vdc; Egk=+30 V; Rk/k=1.0 OHM; DUTY CYCLE = 1%; tp= 10 μ sec (NOTE 12)	2.5 ik:	320	---	---	---	---	ma.
	Δ_{tp} ik:	---	---	---	---	10	PERCENT

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CHARACTERISTICS AND QUALITY CONTROL TESTS¹-cont'd.

IN THE FOLLOWING TESTS, EACH UNIT IS TESTED SEPARATELY

TEST	AQL MIL-E-1 % SYMBOL	MIN	LAL	BOG	UAL	MAX	ALD	MIL-E-1 UNITS
MEASUREMENTS ACCEPTANCE								
TESTS PART 2 (CONT'D.)								
COMBINED AQL=1.0% EXCLUDING MECH. AND INOPERATIVES								
PULSE EMISSION (2): Ef=5.9V; Eb=150 Vdc; Ec1=25 Vdc; tp=10μsec, DUTY CYCLE =1%; egk=+ 30 V; Rk/k=1.0 OHMS; (NOTE 12)	6.5 ik:	300	---	---	---	---	---	ma.
HEATER-CATHODE LEAKAGE (2): Ef=-6.7 V (PIN 6 NEGA- TIVE); Ehk=+100 Vdc (CATHODE NEG.) t=16 SECONDS (NOTE 13)	6.5 lhk(2):	---	---	---	---	1.0	---	μAdc
AMPLIFICATION FACTOR:	6.5 mu:	30	---	35	---	40	---	---
CAPACITANCE	Cgp:	1.2	---	1.5	---	1.8	---	μμf
CAPACITANCE:	Cin:	1.8	---	2.4	---	3.0	---	μμf
CAPACITANCE (NOTE 2)	6.5 Cout:	0.20	---	0.28	---	0.36	---	μμf
	(UNIT #1):							
CAPACITANCE:	Cout	0.22	---	0.32	---	0.42	---	μμf
	(UNIT #2):							
CAPACITANCE:	Cgg:	---	---	---	---	0.013	---	μμf
CAPACITANCE:	Cpp:	---	---	---	---	0.52	---	μμf
OPERATION TIME: (NOTE 10)	4.0 t:	---	---	---	---	20	---	SEC.
LOW PRESSURE VOLTAGE BREAKDOWN: PRESSURE =21 ±3 mmHg; VOLTAGE = 300 Vac.	6.5 ---	---	---	---	---	---	---	---
VIBRATION (2): F=40 cps; G=15; Rp= 10,000 OHMS	2.5 Ep:	---	---	---	---	20	---	mVac
VIBRATION (3): F=70-2000; t=3 MINUTES; G=15; Rp=10,000 OHMS. POSITIONS X ₁ AND X ₂ ONLY.	6.5 ep:	---	---	---	---	125 (PEAK TO PEAK)	---	mv.
DEGRADATION RATE ACCEPTANCE TESTS								
SUBMINIATURE LEAD FATIGUE:	2.5 ---	4.0	---	---	---	---	---	arcs
SHOCK (1): Ehk=100 Vdc; Rg=0.1 MEG.; HAMMER ANGLE = 30 °; (NOTE 3)	20 ---	---	---	---	---	---	---	---

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CHARACTERISTICS AND QUALITY CONTROL TESTS¹ - cont'd.

IN THE FOLLOWING TESTS, EACH UNIT IS TESTED SEPARATELY

TEST	ALLOWABLE DEF. PER CHARACT.	AQL	MIL-E-1	MIN.	MAX.	MIL-E-1
DEGRADATION RATE	1st SAMP.	COMB. SAMP.	%	SYMBOL		UNITS
ACCEPTANCE TESTS (CONT'D.)						
FATIGUE (1):						
96 HOURS; G=2.5; FIXED FREQUENCY; F=25 MIN., 60 MAX. (NOTE 5)			6.5	---	---	---
SHOCK (2):						
Ehk=100 Vdc; Rg=0.1 MEG.; HAMMER ANGLE=120°+RUB- BER PAD; t=10 MILLISEC- ONDS; G=75; (NOTE 15)			20	---	---	---
FATIGUE (2):						
6 HOURS; G=10; F=130- 2000-130 cps (NOTE 14)			6.5	---	---	---
POST SHOCK (1) & (2) AND FATIGUE (1) & (2)						
TEST END POINTS:						
VIBRATION (2):						
F=40cps; G=15; Rp= 10,000 OHMS			---	Ep:	80	mVac
HEATER-CATHODE LEAKAGE (1):						
Ehk=+100 Vdc			---	lhk(1):	7.0	μAdc
Ehk=-100 Vdc			---	lhk(1):	7.0	μAdc
CHANGE IN TRANS- CONDUCTANCE (1) OF INDIVIDUAL TUBES:						
Ef=6.3 V			---	Δ _g Sm(1):	15	PERCENT
GRID CURRENT (1):						
GLASS STRAIN (THERMAL SHOCK):			---	Ic1:	-1.0	μAdc
			6.5	---	---	---
ACCEPTANCE LIFE TEST						
HEATER CYCLING						
LIFE TEST:						
Ef=7.0 V; Eb=Ec1=0V; Ehk=140 Vac; 1 MIN ON, 4 MIN OFF			1.0	---	2000	---
						CYCLES
HEATER CYCLE LIFE						
TEST END POINT:						
HEATER-CATHODE LEAKAGE (1):						
Ehk=+100 Vdc			---	lhk(1):	7.0	μAdc
Ehk=-100 Vdc			---	lhk(1):	7.0	μAdc
2 & 20 HOUR STABILITY						
LIFE TEST:						
TA=ROOM; Ehk=+200 Vdc; Rg/g=1.0 MEG.			---	---	---	---

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CHARACTERISTICS AND QUALITY CONTROL TESTS¹ - cont'd.

IN THE FOLLOWING TESTS, EACH UNIT IS TESTED SEPARATELY

TEST	ALLOWABLE DEF. PER CHARACTER.		AQL MIL-E-1 % SYMBOL	MIN.	MAX.	MIL-E-1 UNITS
	1st SAMP.	COMB. SAMP.				
ACCEPTANCE LIFE TESTS (CONT'D.)						
2 & 20 HOUR STABILITY LIFE TEST END POINTS: CHANGE IN TRANS- CONDUCTANCE (1) OF INDIVIDUAL TUBES: (TYPICAL SAMPLE SIZE = 50 TUBES)			1.0 $\Delta_{\text{L}}\text{Sm}(1)$:	---	10	PERCENT
100 HOUR SURVIVAL RATE LIFE TEST: TA=ROOM; Ehk=+200 Vdc; Rg/g=1.0 MEG.			---	---	---	---
100 HOUR SURVIVAL RATE LIFE TEST END POINTS: (TYPICAL SAMPLE SIZE=200 TUBES) INOPERATIVES:			0.65 --- 1.0 $\text{Sm}(1)$:	---	---	---
TRANSCONDUCTANCE (1):				4000	---	μMHOS
200 HOUR INTERMITTENT LIFE TEST (1): Eb=250 Vdc; Ehk=+200 Vdc; Rg/g=1.0 MEG; Rk/k=2200 OHMS; TA=ROOM	---	---	---	---	---	---
200 HOUR INTERMITTENT LIFE TEST (1) END POINTS: (TYPICAL SAMPLE SIZE =20 TUBES 1st SAMPLE, 40 TUBES 2nd SAMPLE)	---	---	---	---	---	---
INOPERATIVES:	1	3	---	---	---	---
GRID CURRENT (1):	1	3	---	lc(1):	---	μAdc
HEATER CURRENT:	1	3	---	lf:	276	328 mA
CHANGE IN TRANS- CONDUCTANCE (1) OF INDIVIDUAL TUBES:	1	3	---	$\Delta_{\text{L}}\text{Sm}(1)$:	---	25 PERCENT
TRANSCONDUCTANCE (2): (NOTE 9)	1	3	---	$\Delta_{\text{E}}\text{Sm}(2)$:	---	20 PERCENT
HEATER=CATHODE LEAKAGE (1): Ehk=+100 Vdc	1	3	---	lhk(1):	---	10 μAdc
Ehk=-100 Vdc			---	lhk(1):	---	10 μAdc
ELECTRODE INSULATION: g-all:	1	3	---	Rg1-all:	100	---
p-all:			---	Rp-all:	100	---
TOTAL DEFECTIVES:	3	6	---	---	---	---
500 HOUR INTERMITTENT PULSE LIFE TEST: Eb=250 Vdc; Ec1=-25 Vdc; Rk/k=0; RL/p=330 OHMS; tp=10 $\mu\text{sec.}$; DUTY CYCLE= 1.0%; egk=+30 $\pm$ 1v; TA=ROOM.	---	---	---	---	---	---

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CHARACTERISTICS AND QUALITY CONTROL TESTS¹-cont'd.

IN THE FOLLOWING TESTS, EACH UNIT IS TESTED SEPARATELY

TEST	ALLOW. DEF. PER CHAR.	AQL %	MIL-E-1 SYMBOL	MIN.	MAX.	MIL-E-1 UNITS
ACCEPTANCE LIFE TESTS (CONT'D.)	1st SAMP.	COMB. SAMP.				
500 HOUR INTERMITTENT PULSE LIFE TEST END POINTS:						
(TYPICAL SAMPLE SIZE= 20 TUBES 1st SAMPLE; 40 TUBES 2nd SAMPLE)	---	---	---	---	---	---
INOPERATIVES:	1	3	---	---	---	---
PULSE EMISSION (1):	1	3	ik:	300	---	ma.
CHANGE IN PULSE EMISSION (1) OF INDIVIDUAL TUBES FROM INITIAL:	1	3	{ --- Δ_{ik} : --- Δ_{ik} :	---	-35 +50	PERCENT PERCENT
TOTAL DEFECTIVES:	2	5	---	---	---	---
INTERMITTENT HIGH TEM- PERATURE LIFE TEST (2):						
T BULB=220°C; E _{hk} =+200 Vdc; R _g /g=1.0 MEG.	---	---	---	---	---	---
500 HOUR INTERMITTENT HIGH TEMPERATURE LIFE TEST (2) END POINTS:						
(TYPICAL SAMPLE SIZE= 20 TUBES 1st SAMPLE; 40 TUBES 2nd SAMPLE)	---	---	---	---	---	---
INOPERATIVES:	1	3	---	---	---	---
GRID CURRENT (1):	1	3	lc(1):	---	-0.7	μ Adc
HEATER CURRENT:	1	3	if:	276	328	mA
TRANSCONDUCTANCE (1) CHANGE OF INDIVIDUAL TUBES FROM INITIAL:	1	3	---	$\Delta_{tSm}(1)$:	---	20 PERCENT
TRANSCONDUCTANCE (2): (NOTE 9)	1	3	---	$\Delta_{EtSm}(2)$:	---	15 PERCENT
HEATER=CATHODE LEAKAGE (1):						
E _{hk} =+100 Vdc	1	3	{	lhk(1):	---	10 μ Adc
E _{hk} =-100 Vdc			{	lhk(1):	---	10 μ Adc
INSULATION OF ELECTRODES:						
g-all	1	3	{	R _g 1-all:	50	---
p-all			{	R _p -all:	50	---
TRANSCONDUCTANCE (1) AVERAGE CHANGE:	---	---	---	Avg Δ_{tSm} :	---	15 PERCENT
TOTAL DEFECTIVES:	3	6	---	---	---	---
1000 HOUR HIGH TEM- PERATURE LIFE TEST (2) END POINTS:						
(TYPICAL SAMPLE SIZE= 20 TUBES 1st SAMPLE; 40 TUBES 2nd SAMPLE)	---	---	---	---	---	---
INOPERATIVES:	1	3	---	---	---	---

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CHARACTERISTICS AND QUALITY CONTROL TESTS¹ - cont'd.

IN THE FOLLOWING TESTS, EACH UNIT IS TESTED SEPARATELY

TEST	ALLOW. DEF. PER CHARAC.		AQL %	MIL-E-1 SYMBOL	MIN.	MAX.	MIL-E-1 UNITS
	1st SAMP.	2nd. SAMP.					
ACCEPTANCE LIFE TESTS (CONT'D.)							
GRID CURRENT (1):	1	3	---	I _c (1):	---	~1.0	μAdc
HEATER-CURRENT	1	3	---	I _f :	276	328	mA
TRANSCONDUCTANCE (1)							
CHANGE OF INDIVIDUAL TUBES:	1	3	---	Δ ₁ Sm(1):	---	25	PERCENT
TRANSCONDUCTANCE (2):	1	3	---	Δ _{Ef} Sm(2):	---	20	PERCENT
(NOTE 9)							
HEATER-CATHODE LEAKAGE (1):							
Ehk=+100 Vdc	1	3	{	I _{hk} (1):	---	10	μAdc
Ehk=-100 Vdc				I _{hk} (1):	---	10	μAdc
ELECTRODE INSULATION:							
g-all:	2	5	{	R _{g1} -all:	25	---	MEG.
p-all:				R _p -all:	25	---	MEG.
TOTAL DEFECTIVES:	4	8	---	---	---	---	---

NOTES

1. CHARACTERISTICS, QUALITY CONTROL TEST PROCEDURES, AND INSPECTION LEVELS ARE MADE ACCORDING TO THE APPROPRIATE PARAGRAPHS OF MIL-E-1, AND MIL-STD-105A.
2. WITHOUT SHIELD
3. TEST CONDITIONS AND ACCEPTANCE CRITERIA PER SHOCK TEST PROCEDURES OF MIL-E-1 BASIC SPECIFICATIONS.
4. CENTRIFUGE TEST WITH FORCES APPLIED IN ANY DIRECTION.
5. TEST CONDITIONS AND ACCEPTANCE CRITERIA PER FATIGUE TEST PROCEDURES OF MIL-E-1 BASIC SPECIFICATIONS.
6. THESE NORMAL VALUES REPRESENT CONDITIONS AT WHICH CONTROL OF RELIABILITY MAY BE EXPECTED.
7. THESE NORMAL TEST CONDITIONS ARE USED FOR ALL CHARACTERISTIC TESTS UNLESS OTHERWISE STATED UNDER THE INDIVIDUAL TEST ITEM.
8. FOR MOST APPLICATIONS THE PERFORMANCE WILL NOT BE ADVERSELY AFFECTED BY ±5% HEATER VOLTAGE VARIATION, BUT WHEN THE APPLICATION CAN PROVIDE A CLOSER CONTROL OF HEATER VOLTAGE, AN IMPROVEMENT IN RELIABILITY WILL BE REALIZED.

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NOTES - CONT'D.

9. CHANGE OF TRANSCONDUCTANCE FOR INDIVIDUAL TUBES FROM THAT VALUE MEASURED AT $E_f=6.3$ V TO THAT VALUE MEASURED AT $E_f=5.7$ V.

10. OPERATION TIME IS THE TIME IN SECONDS REQUIRED FOR THE PLATE CURRENT TO ATTAIN A VALUE WITHIN $\pm 10\%$ OF THE THREE (3) MINUTE PLATE CURRENT (1) VALUE MEASURED AT PLATE CURRENT (1) TEST CONDITIONS. NO PREHEATING BEFORE THIS TEST IS ALLOWED. A COLD TUBE MUST BE USED.

11. DURING BOTH CONTINUITY AND SHORT TESTING, THE TUBE UNDER TEST SHALL BE TAPPED AT LEAST THREE TIMES IN EACH OF TWO PLANES 90° APART WITH A TAPPER WHICH SHALL BE ADJUSTED TO GIVE AN IMPULSE OF APPROXIMATELY ONE HALF SINE WAVE OF 300 ± 50 MICRO SECONDS DURATION AND HAVING A MINIMUM AVERAGE AMPLITUDE OF 80 G's. PEAK ACCELERATION AS MEASURED WITH A GULTON A-305 ACCELEROMETER AND KA-1 KIT. THE SHORTS DETECTING EQUIPMENT SHALL BE A DEVICE CAPABLE OF DETECTING AS SHORTS, THE FOLLOWING INTERELEMENT RESISTANCES OF THE GIVEN TIME DURATION.

DURATION	SENSITIVITY
PERMANENT SHORT	600,000 OHMS
500 MICROSECONDS	500,000 OHMS
100 MICROSECONDS	100,000 OHMS
60 MICROSECONDS	1 000 OHMS

TUBES WHICH GIVE AN INDICATION OF ONE OR MORE OF THE FOLLOWING SHALL BE REJECTED AS INOPERABLE:

- A) EITHER A PERMANENT OR TAP SHORT AT ANY TIME DURING THE TAPPING PROCEDURE.
- B) ANY OPEN CIRCUIT
- C) AIR LEAKS

12. PEAK CATHODE CURRENT SHALL BE MEASURED BY MEANS OF A HIGH IMPEDANCE OSCILLOSCOPE OR EQUIVALENT DEVICE CONNECTED ACROSS A $1.0 \pm 1\%$ CATHODE RESISTOR. THE SPECIFIED LIMIT REFERS TO THE MAXIMUM OF THE PULSE AMPLITUDE. THE VARIATION OF THE OUTPUT PULSE AMPLITUDE BETWEEN 20% AND 80% TP SHALL NOT EXCEED THE SPECIFIED LIMIT.

13. HEATER-CATHODE LEAKAGE (2) IS PERFORMED AS FOLLOWS:

- A) PREHEAT TUBES FOR 10 SECONDS WITH $E_f=10.5$ V.
- B) TEST IMMEDIATELY BY THE APPLICATION OF THE SPECIFIED TEST CONDITIONS OF THIS TEST.
- C) AFTER 16 SECONDS READ HEATER-CATHODE LEAKAGE OF EACH SECTIONS.

14. THE TUBES SHALL BE RIGIDLY MOUNTED ON A TABLE VIBRATING WITH SIMPLE HARMONIC MOTION. THE TUBES SHALL BE VIBRATED FOR A TOTAL OF 6 HOURS, 2 HOURS IN EACH OF THREE POSITIONS, X1, X2, AND Y1. ONLY RATED HEATED VOLTAGE SHALL BE APPLIED. TUBES WHICH SHOW ONE OR MORE OF THE FOLLOWING DEFECTS SHALL BE CONSIDERED FAILURES.

- A) TUBES WHICH SHOW PERMANENT OR TAP SHORTS OR OPEN CIRCUITS FOLLOWING FATIGUE TEST, WHEN TESTED AS SPECIFIED IN 4.7.2 AND 4.7.3.
- B) TUBES WHICH DO NOT COMPLY WITH POST FATIGUE LIMITS. THIS IS A DESTRUCTIVE TEST.

15. THE PROVISIONS OF PARAGRAPH 4.9.20.5 OF SPECIFICATION MIL-E-1 SHALL APPLY, EXCEPT FOR TEST CONDITIONS LISTED FOR SHOCK TEST (2).

