MINISTRY OF SUPPLY - DLRD(A)/TRE RRE

VALVE ELECTRONIC CV 2253

Specification MOS(A)/CV2253 Issue 2 Dated 26.3.53 To be read in conjunction with K1001				Specifica UNCLASSIF	-	<u>Yal</u> UNCLASS	
•	- Indi	cates a	change				
TYPE OF VALVE - Gas-filled Tetrode				M	ם אינו אר	ng Pagalan di Anglija di Kanapan	
CATHODE - Indirectly-heated					RKING	• • •	
ENVELOPE - Glass				See	K1001	174	
PROTOTYPE - VX6109							
RATING Note				See Kibo /AV/62 BASE M Dimension (iii) opplu 6-pin International Octal			
Heater Voltage Heater Current	(V) (A)	6.3 0.95	 A	CONN	ECT IO	NS.	
Max. Peak Forward Anode Voltage	(V) 600 B,C Pin Electrode						
Max. Peak Inverse Anode Voltage Max. Surge Peak Inverse Anode Voltage Max. Negative Screen Grid Voltage before anode conduction	(V) (kV) (V)	1300	B,C C,D	1 2 3	Anode	omitted	
Max. Negative Screen Grid Voltage during anode conduction Max. Negative Control Grid Voltage before anode conduction	(V) (V)	1 0		4 5 6 7	Conti	omitted rol Gri en Grid er	d
Max. Negative Control Grid Voltage during anode conduction Max. Peak Cathode Current Max. Mean Cathode Current	(V) (A@) (AM)	10 1250 250	Е	8 Cathode DIMENSIONS See K1001/A1/D1			
Max. Control Grid Series Resistance Max. Mean Positive Control Grid Current	(Megohm) (mA)	1.0 5.0	E,F	Dimension	(mms	Min.	Max.
Max. Peak Heater-cathode Voltage Heater negative Heater positive Ambient Temperature Range	(oc) (a) (a)	100 25 -50 to +90		A B C MOUNTI	Mr. pos		85 35 33
For Notes, see Page 2.	NOTES			100MT	Any	2.1101	

NOTES

- A. Minimum cathode heating-time = 15 secs.
- B. Absolute maximum value.
- C. These ratings apply at air pressures corresponding to an altitude of 55,000 ft, and up to a max. supply frequency of 1600 cps. Operation at supply frequencies above 1600 cps may result in the valve having a relatively short life.
- D. Under transient switching conditions.
- E. Maximum averaging-time = 15 secs.
- F. It is not permissible to draw currents of this order during that time when the anode is more negative than -10 volts.

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Test Conditions					M		Limits		No.	No.5-
					Test		Min.	Max.	Tested	Note
	Vn (V)	Vht (V)	Vg2 (V)	Vg1 (V)						
a	6.3	-	•	-	Ih	(A)	0.83	1.07	100%	
b	5.3	460 AC 50 c/s RMS	0	Sufficiently negative to prevent conduction	Vg1	(V)	2.5	6.0	100%	1 & 4
c	6.3	460 AC 50 c/s RMS	0	As in Test (b)	Vg1	(v)	-	21.0	100%	2 & 4
đ	6.3	DC voltage increased until valve conducts	0	0	Va	(V)	-	30.0	100%	3 & 4
е	6.3	Measure	-	••	Voltage dro			10.0	100%	3 & 4
î	6.3	Cathode-grid potential = -100V.		Cathode-gr		0.8	-	100%		
g	6.3	The valve o o shall be operated at PIV = 2kV, 50 cps for a period of 30 secs under conditions of normal ambient temporature and pressure.		There shall visible sig sparking of flashover	ns of	-	-	100%		
h	6.3	As for Test (g) but pressure of			There shall be no visible signs ef sparking or flashover		-	-	TA or S	
j	6.3	As K1001/5.3, cathode Volta			Heater-cath Insulation		-	125	100%	

NOTES

- 1. Rg1 = 0.1 Megohm; R load = 2.5K; Vg! increased in positive direction until valve conducts.
- 2. Rg1 = 10 Megohms; R load = 2.5K
- 3. Rg1 = 0.1 Megohm; R load = 100 ohms.
- 4. Pins 6 and 8 strapped.