VALVE ELECTRONIC CV234

MINISTRY OF SUPPLY (S.R.D.E.)

Specification; MOS/CV234/Issue 3	SECURITY		
Dated: - 17.8.48.	Specification	Valve	
To be read in conjunction with K1001.	Design the control of	Unclassified	

indicates a change

TYPE OF VALVE: - Velocity modulated magnetically focused local oscillator CATHODE: - Indirectly heated ENVELOPE: - Copper - glass PROTOTYPE: - DV. 56				<u>Marking</u> See K1001/4		
RATING			BASE B7G Pin Electrode			
Heater voltage (V)	6.3		1	Grid 1		
Heater current (A)	0.3			Cathode		
Nominal tuning range		2	Heater			
(oms)			Heater			
Max dissipation anode		4 5 6	Anode			
and resonator (W)	15		6	Resonator		
Anode voltage (V)	120-360	A	7	Grid 2		
Resonator voltage (V)	100-340					
Max. screen voltage (V)	340		DIMENSIONS			
Max. resonator			And the profession as the second and			
dissipation (W)	12	В	See page 3			
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NOTES

- A. Anode should be approximately 20V positive to resonator.
- B. Screen volts should not at any time exceed resonator volts.
- A permanent magnet is used to focus the electron beam and is orientated so that maximum current flows to the anode.

 Locating holes are provided so that the magnetic alignment position is the same for all valves. The magnet should have a uniform field strength of approximately 1,000 oersteds.

 Jessop magnets types 9501 and 10512 are recommended.

CV234

TESTS

To be performed in addition to those applicable in K1001

ſ	Test Conditions					Test	Limits		No.	
	TOS CONTESTONS				1930	Min	Max	Tested		
	Vh	Vg1	Va	Vg2	Vres	Ic mA				
а	6.3	Cin.	enen	***			Ih (A)	0.27	0.33	100%
b	6.0	0	Set at Vr1 + 10-20V	Note2	Adjust	54	i)Power output (mW) ii)Resonator voltage(Vr1)		- 265	100%
С	6.0	0	Set at Vr2 + 10 <i>-</i> 20V	Adjust Note 3	Adjust	7 5 max	i)Power output (mW) ii)Resonator voltage (Vr2)	325	- 190	100%
đ	6.6	-200	2 35- 245	150	225	-	Rev.Ig (µA)	-	30	100%
е	6.6	0	235 - 245	Adjust	225	65	Ig2 (mA) Vg2 (V)	- 80	6.0 200	100%

NOTES

- 1. Tests b and c shall be carried out in a test set to S.T.& C. Spec. VIS6618 or in another approved test set.
- 2. Vg2 is adjusted to give Ic = 54 mA, with oscillation at 8.9 cms.
- 3. Vg2 is adjusted to give Ic = 75 mA max., with oscillation at 11.0 cms.

