# VALVE ELECTRONIC CV234

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

Specification:	Specification: MOS/CV234/Issue 3			SECURITY			
Dated: - To be read in	17.8.48. conjunction with	K1001.	Specification Restricted	Valve Unclassified	•		
				,			

### - indicates a change

TYPE OF VALVE: - Velocity magnetic focussed oscillat CATHODE: - Indirect ENVELOPE: - Copper - PROTOTYPE: - DV. 56	<u>Marking</u> See K1001/4				
RATING	Note	BASE B7G			
			Pin	Electrode	
Heater voltage (V)	6.3		1	Grid 1	
Heater current (A)	0.3		2	Cathode	
Nominal tuning range				Heater e	
	7.5-15		4 5 6	Heater	
Max dissipation anode	, '	5	Anode		
and resonator (W)	15		6	Resonator	
	120-360	A	7	Grid 2	
	100-340				
Max. screen voltage (V) 340			DIMENSIONS		
Max. resonator	12				
dissipation (W)	В	See page 3			

## NOTES

- A. Anode should be approximately 20V positive to resonator.
- B. Screen volts should not at any time exceed resonator volts.
- c. 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 cersteds.

  Jessop magnets types 9501 and 10512 are recommended.

## CV234

#### TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No.		
en ist						1050	Min	Max	Tested	
	Vh	Vg1	Va.	Vg2	Vres	Ic mA				
а	6.3	· 629	-	<b>.</b>	. =	-	Ih (A)	0.27	0.33	100%
P	6.0	0	Set at Vr1 + 10-20V	Note2	Adjust	54	i)Power output (mw) ii)Resonator voltage(Vr1)		265	100%
c	6.0	0	Set at Vr2 + 10 <i>-2</i> 0V		Adjust	<b>7</b> 5 max	i)Power output (mW) ii)Resonator voltage (Vr2)	325	- 190	100%
đ	6.6	-200	2 <b>35-</b> 245	150	225		Rev.Ig (µA)	GTOR	30	100%
е	6.6	0	235 <b>-</b> 245	Adjust	225	65	Ig2 (mA) Vg2 (V)	<b>-</b> 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.

