MINISTRY OF SUPPLY D.L.R.D. (A)/R.A.B.

VALVE ELECTRONIC CV 2245

Specification MOSA./CV.2245	SECU	SECURITY			
Issue 2 Dated 23.2.53 To be read in conjunction with K.1001	Specification	<u>Valve</u>			
To he tour in occupant with M. 100.	UNCLASSIFIED	aunclassified			

>	Indicates		change
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TYPE OF VALVE - Air Cooled V.H.F. TO CATHODE - Directly heated ENVELOPE - Metal, Glass PROTOTYPE - 3J/160E	MARKING See K.1001/4.					
Pilament Voltage (V) Filament Current (A) Max. Anode Voltage (KV) Max. Anode Dissipation (KW) Max. Anode Current (A) Amplification Factor Max. Grid Dissipation (V) Anode Impedance (Q) Max. Operating Frequency (Mo/s Max. Emission (A)	10 29 3.0 1.0 2.2 19 75 1,300 120	Note A B B	BASE AND CONNECTIONS See Drawing on Page 3. DIMENSIONS			
CAPACITANCES (pF) Cag Cge Cae	8.8 12.0 0.7		Dimension Overall Length (mm) Diameter over Radiator (mm) Bulb diameter	Min. - -	133 64.3 54	

NOTES

- A. With forced air cooling of 80 cu. ft/min. at a pressure of 2 in. of water.
- B. Measured Va = 2.0 kV, Ia = 0.5 A.

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To be performed in addition to those applicable in K. 1001

	Test Conditions		S om t	Limits		No.	No.		
		Test	COMMITTOR		Test	Kin. Max.		Tested	Note
•					Capa ci tances (pF) Cag Cge Cae	111	11 15 1.5		
	Vf	Va(kV)	Vg1(V)	IA (A)		97.0		100%	1
Ъ	10	-	-	-	If (A)	27.0	31.0	or S	
0	10	3.0	Adjust	0.5	Reverse Igi (µA)	-	25	100%	2
a	10	3.0	Adjust	0.5	Vg1 (V)	-65	-130	100%	2
•	10	2.0	-50	Record	gm (mA/V)	10	16	100%	
£	10	3.0	Adjust	Set as in(e)	ħ	16	23	100% or 8	
8	10	1.0	1000	-	Peak Emission (A)	10	-	100%	3

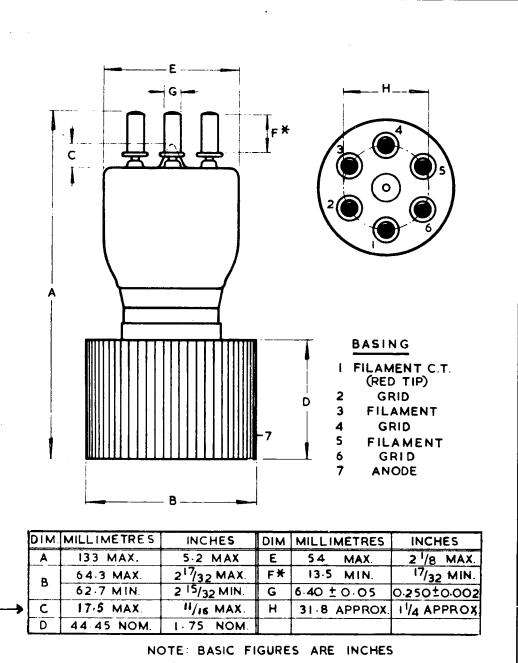
NOTES

 For all tests with the exception of test (a), forced air cooling at a minimum of 100 cubic feet/minute, shall be applied to the anode radiator, prior to the application of any voltages to the electrodes.

The filament shall be heated by 50 c.p.s. current and the common return of grid and anode circuit shall be to the centre point of the filament transformer secondary, except as specified in test (g).

- The reverse current to the control grid shall not exceed the value specified at the end of a 10 minute test and shall not be rising.
- 5. The emission shall be measured by the discharge of a condenser charged to 1 kV and connected between anode and grid strapped and one end of the filament.

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* DENOTES: CONTACT LENGTH

OV 2245/2/3