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

VALVE ELECTRONIC CV 2245

Specification MOSA./CV.2245	SECURITY			
Issue 2 Dated 23.2.53 To be read in conjunction with K.1001	Specification	Valve		
To so som In confirmation agen Its (44)	UNCLASSIFIED	UNCLASSIFIED		

TYPE OF VALVE - Air Cooled V.H.F. To CATHODE - Directly heated ENVELOPE - Metal, Glass PROTOTYPE - 3J/160E	MARKING See K.1001/4.				
Filament Voltage (V) Filament Current (A) Max. Anode Voltage (kV) Max. Anode Dissipation (kW) Max. Anode Current (A) Amplification Factor Max. Grid Dissipation (W) 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 B B	BASE AND CONNECTIONS See Drawing on Page 3. DIMENSIONS		
CAPACITANCES (pF)			Dimension	Min.	Max.
Cag Cge Cae	8.8 12.0 0.7		Overall Length (mm) Diameter over Radiator (mm) Bulb diameter	- - -	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.

CV2245

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

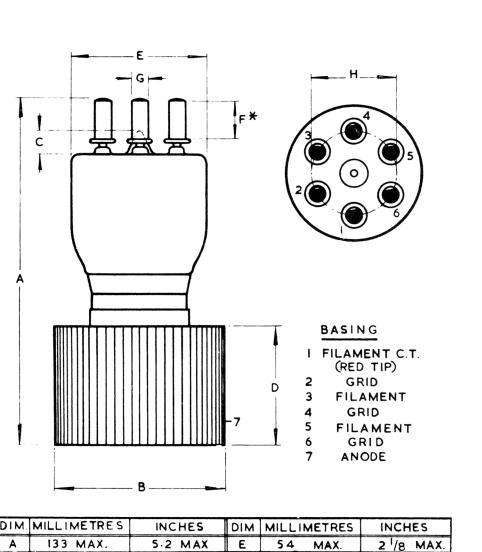
	Test Conditions				Test	Limits		No.	No. de
		1680	COMMIT STORE	•	100 6	Min. Max.		Tested	Note
					Capacitances (pF)				
a					Cag Cge Cae	-	11 15 1•5		
	ve	Va(kV)	v g1(v)	Ia (A)					
ъ	10		-		If (A)	27.0	31.0	100% or S	1
c	10	3.0	Adjust	0.5	Reverse Ig1 (µA)	-	25	100%	2
a	10	3.0	Adjust	0.5	Vg1 (V)	-65	-130	100%	2
0	10	2.0	-50	Record	gm (mA/V)	10	16	100%	
f	10	3.0	Adjust	Set as in(e)	μ	16	23	100% or 8	
g	10	1.0	1000	-	Peak Emission (A)	10	1	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.



	DIM.	MILLIMETRES	INCHES	DIM	MILLIMETRES	INCHES	
>	Α	133 MAX.	5.2 MAX	E	54 MAX.	2 1/8 MAX.	
	В	64-3 MAX.	2 ¹⁷ /32 MAX.	F*	13.5 MIN.	¹⁷ /32 MIN.	
	Ь	62-7 MIN.	2 15/32 MIN.	G	6.40 ± 0.05	0.250±0.002	
	С	17.5 MAX.	11/16 MAX.	Н	31-8 APPROX.	11/4 APPROX	
	D	44-45 NOM.	1-75 NOM.				

NOTE: BASIC FIGURES ARE INCHES

* DENOTES: CONTACT LENGTH