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

VALVE ELECTRONIC CV2214

Specification MOSA/CV2214 Issue 3 Dated 1.2.55 To be read in conjunction with BS448, BS1409, and K1001.	Specification	SECURITY Specification Valve				
	UNCLASSIFIED	UNCLASSIFIED				

_____ Indicates a change

TYPE OF VALVE - Grounded Grid Triode CATHODE - Indirectly heated ENVELOPE - Glass, unmetallised	MARKING see K1001/4 BASE BSJ448/B8G					
PROTOTYPE - 3B/240M	TOP CAP BS448/CT1					
		Note	CONNECTIONS			
RATING		11000	Pin Electrode			
Heater Voltage (V) Heater Current (A) Max. Anode Voltage (V) Max. Anode Dissipation (W) Mutual Conductance (mA/V) Amplification Factor Max. Frequency of operation (Mo/s)	6.3 1.1 400 24 27 90 200	A B C C	1 2 3 4 5 6 7 8	h g g g k h a		
	11.0 0.15 4.3		DIMENSIONS see K1001/A1/D7			
CAPACITANCES (pF)			Dimensions		Min	Max.
Cg, kh (nom) Ca, kh (nom) Ca, g (nom)			A (mm) S (mm) L (mm)		111	80•2 30•15 66•7
				415-1-1-18-1-4-1-18-1-18-1-18-1-18-1-18-	S-A-A-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-	

NOTES

A. Absolute maximum value.

B. Forced air cooling is required for anode dissipation in excess of 15 watts. 5 cu. ft per minute is usually adequate if introduced at the bottom of a 1-3/8" diameter valve screen, as indicated on the drawing on Page 3.

C. Measured at Va = 300 V; Vg = -1; Ia = 50 mA.

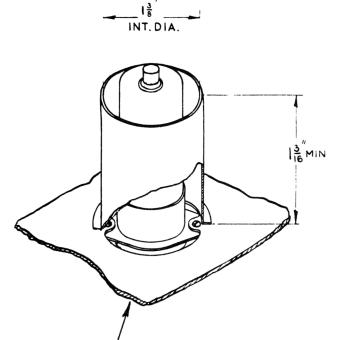
CV2214

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

Test conditions				TEST		Limits		No. Tested	W. A.		
					Min.	Max.	Tested	Note			
	To be measured in an approved adapter.				CAPACITAN	CES (pF)					
	Links Links Links to H.P. to L.P. to E										
a	3,4,5,6 1,2,7,8 9,10,T. T.C.2.		,10,T.C.1,	Cg, kh		-	17.0	6			
	T.C.1		2 ,7, 8		,4,5,6,9, 0, T.C.2.	Ca, kh		-	0.5	per week	
	T.C.	T.C.1 3,4,5,6 1,2,7,8, 9,10, T.C.2.		Ca, g		-	5-5 57				
	Vh (V)	۷ a (۷)	(V)	3	Ia (mA)						
ъ	6.3	0	0		0	Ih	(A)	0.9	1•3	100% or S	1
С	6•3	3 00	-1		-	Ia	(mA)	25	90	100%	1, 2
đ	6•3	300	-1		•	μ		65	115	100%	1
е	6•3	3 00	٦		7	gm	(mA/V)	17•5	35	100%	1
f	6•3	400	-		60	Reverse Ig	(ALA)	-	5	100%	1, 3
g	6•3	25 0	25	0	-	Total emis	sion (A)	5	-	100%	4

NOTES

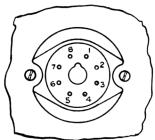
- Tests b to f inclusive shall be performed with forced air cooling of the bulb as required by Note B on Page 1.
- A 100 ohm parasitic oscillation stopper resistor must be inserted in the anode lead.
- 3. The duration of this test shall not be less than three minutes. At the end of this period the reverse current to the control grid shall not exceed the value specified and shall not be increasing.
- 4. A 2/uSec pulse of 250 volts peak amplitude and 50 c/s repetition frequency shall be applied between the anode plus grid (Strapped) and the cathode.



Air flow of 5 cu.ft./min. directed through an air duct from underside of chassis.

NOTE

The maximum bulb temperature occurs on the parts of the bulb opposite pins 1 & 8 and 4 & 5. A valve socket should, therefore be used in which the mounting flanges are opposite pins 2 & 3 and 6 & 7. This will prevent obstruction of the air flow at these points (see sketch below). Alternatively deflecting plates may be fitted to ensure an even air flow around the bulb.



AMENDMENT NO. 1

TO ISSUE 3 DATED 1.2.1955

OF ELECTRONIC VALVE SPECIFICATION CV. 2214

Page 2, Clause (a), Ca, g,

Amend Maximum limit to read -

5.7 pF instead of 5.5 pF

T.V.C. for R.A.E.

June, 1958 N.31925R