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	Section Specification	RITY Valve
To be read in conjunction with happy, in 1407, and 11001,	unclassified	UNCLASSIFIED

#### Indicates a change

TYPE OF VALVE - Grounded Grid Triode  CATHODE - Indirectly heated  ENVELOPE - Glass, unmetallised  PROTOTYPE - 3B/240M	MARKING see K1001/4 BASE BS44B/BBG TOP CAP BS44B/CT4					
		Note	CONNECTIONS			
RATING			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	<b>▲</b> BCC	1 2 3 4 5 6 7 8	h k g g g g k h a		
	11.0 0.15 4.3		DIMENSIONS see K1001/A1/D7			
CAPACITANCES (pf)			Dimensions		Min	Max.
Gg, kh (nom) Ca, kh (nom) Ca, g (nom)			A (mm) S (mm) L (mm)		111	80.2 30.15 66.7
	·					

#### 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 bettom of a 1-3/8" diameter valve screen, as indicated on the drawing on Page 3.
   C. Measured at Va = 300 V; Vg = -i; Ia = 50 mA.

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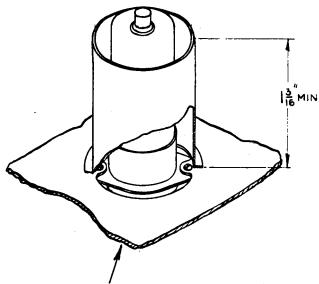
C	V	22	2 4	4 Fo be	pe	rformed in	TESTS Page 2 addition to those applicable in K.1001					
	Test conditions						TEST		Limits		No.	
L									Min.	Max.	Tested	Note
	To be measured in an approved adapter.						CAPACITA	INCES (pF)				
	Links Links Links to H.P. to L.P. to E											
•	3,4,5	5,4,5,6 1,2,7,8 9,10,T.C.1, T.C.2.		Cg, kh	-	17.0	6					
	T.C.	1	1,2			,4,5,6,9, D, T.C.2.	Ca, kh		-	0.5	per week	
	T.C.	C.1 3,4,5,6 1,2,7,8, 9,10, T.C.2.		,10,	Ca, g		-	<del>55</del> 5.7				
	(A)	7	(a V)	V <sub>2</sub> (∇)		Ia (mA)				·		
ъ	6.3		0	.0		0	Τh	( <b>A</b> )	0.9	1•3	100% or S	1
С	6•3	3	500	1		-	Ia.	(mA)	25	90	100%	1, 2
đ	6•3	3	100	Ť			μ		65	115	100%	1
•	6.3	3	00	-1		-	gm	(mA/V)	17•5	35	100%	1
٤	6•3	4	.00	_		60	Reverse	Ig (nA)		5	100%	1, 3
g	6•3	2	50	25	0	•	Total em	ission (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  $\bf 1$ .
- A 100 ohm parasitic oscillation stopper resistor must be inserted in the anode lead.
- The duration of this test shall not be less than three mimites. At the end of this period the reverse current to the control grid shall not exceed the value specified and shall not be increasing.
- 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.

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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. Avalve 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 sketck below). Alternatively deflecting plates may be fitted to ensure an even air flow around the bulb.

