VALVE ELECTRONIC **CV2115**

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

Specification MOSA/CV2115 Issue 4 Dated 11.11.1953. To be read in conjunction with K1001, ignoring clauses 5.2, 5.8.	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Halfwave Rectifier

CATHODE - Directly Heated

ENVELOPE - Glass, unmetallised

→ PROTOTYPES - E.2004

MARKING

See K1001/4

See K1001/A1V/D2
BASE M Dimension
I.O. (iii) applies

RATING

			Note
Filament Voltage	(V)	1.25	
Filament Current	(A)	0.2	
Max. Working P.I.V.	(kV)	33	C
Max. Mean Anode Current	(mA)	2.2	
Max. Peak Anode Current	(mA)	18.7	C
Max. Surge Current	(mA)	40	C
Max. Frequency	(kc/s)	300	

CAPACITANCE (pF)

Caf	1.5

MOUNTING POSITION

Any

CONNECTIONS

Pin	Electrode
1	Internal connection
2	Filament
3	Internal connection
4	Omitted
5	Internal connection
6	Omitted
7	Filament
8	Internal connection
T.C.	Anode

TOP CAP

See K1001/A1/D5.1.

DIMENSIONS

See K1001/A1/D1.

Dimension	Min.	Max.
Amm	93.7	103.1
Bmm	-	32.5

NOTES

A. Should the filament be supplied from an R.F. source it must be run at the same temperature as it would attain at 1.25V. D.C.

B. Pins 1, 3, 5 and 8 must not be used for external connections. All unused valve holder connections should be strapped to Pin 7 to reduce corona discharge.

C. When the valve is used at max. voltage and/or current ratings, the supply source impedance shall be not less than 150,000 ohms.

TESTS

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

	Test Conditions			Test	Limits Min.	Limits Max.	No. Tested	Note
	See K.1001/AIII Measurement to be made in Adaptor Type 44 Ref. No. 10A/13340.							
	Links to H.P.	Links to L.P.	Links to E.	Capacitance (pF)				
a	T.C.	1,2,3,5, 7,8.	9,10 T.C. 2	Caf	1.0	2.0	100% or S	
	Vf(V)	Va(V)						
b	1.25 A.C.	-		If (mA)	180	220	100% or S	
→ c	1.10	190		Emission (mA)	5.0	15.0	100%	2
d	1.25 A.C.	See Note (3) PIV 33kV		Load Test D.C. Output Current (mA) Run for five minutes. Reject for softness and persistent flashover	2	-	6 per week	1,3,4

NOTES

1. This test shall be performed at a frequency of not less than 75 kc/s.
2. Applied only for sufficient time to obtain steady reading.
3. Filament and Anode Voltages shall be applied simultaneously. Load Resistance = 7 Megohms; Reservoir Condenser = 450 pF; Heating time = 90 sec. (minimum). Peak D.C. Anode Current = 18.7 mA. minimum.
4. Should the filament be supplied from an R.F. source it must be run at the same temperature as it would attain at 1.25V. D.C.