VALVE RELECTRONIC CV1883

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

Specification MOSA/CV.1883

Issue 1 Dated 14.10.54

To be read in conjunction with B.S.1409 and K1901.

Security
Specification Valve
UNCLASSIFIED UNCLASSIFIED

TYPE OF VALVE - R.F. Tetrode, air cooled CATHODE - Directly heated, thoriated tu	<u>Marking</u> See K1001/4				
filament PROTOTYPE - 4H/18OE	BASE See drawing on page 3				
RATINGS	CONNECTIONS				
Filament Voltage (V)	5.0		Pin	Electrode	
Filament Current (nom.) Filament Useable Emmission (max.) Mutual Conductance Inner MAXIMUM RATINGS	22.5 5.0 10.0 3.5	A A	12345	1 82 81.	
Max. direct Anode Voltage Max. direct Anode Current Max. Anode Dissipation Max. direct Screen Voltage Max. direct Screen Dissipation W	2.0 300 330 250 20		234567890	g1 f2 g1 a g2	
Max. direct Grid Dissipation Max. Frequency for above ratings CLASS C AMPLIFIER OR OSCILLATOR (UNMODULATED)	20 110		<u>DIMENSIONS</u> See drawing on page 3		
MAXIMUM RATINGS				nterestrial este de la constantina del constantina de la constantina del constantina de la constantina	
Max. direct Anode Voltage Max. direct Anode Current Max. direct Anode Dissipation Max. direct Screen Voltage Max. direct Screen Dissipation Max. direct Grid Dissipation Max. direct Grid Dissipation Max. frequency for above ratings (Mc/s)	2.5 600 500 500 30 20 110	В			
CAPACITANCES (DF)					
C in C out Ca, gi	36 13 0•15	000			

NOTES

- A. Measured at Va = 1kV, Vg2 = 500V, Vg1 =-30 V.
- B. With air circulation of 25 cu.ft./min. and additional cooling for header cup of 10 cu.ft./min. Maximum ambient temperature 45°C.
- C. Measured with a 12 in. square plate fixed to the screen grid terminal.

TESTS

To be performed in addition to those detailed in K1001

Test Conditions								Tost	Lim Min.	its Max.	No. Tested	Note
See K1001/A III								Capacitances (pF) C in C out Ca, g1	30 10	42 16 2•0	6 per week T.A.	
	vr (v)	∀a (∀)	V g1 (V)	Vg2 (V)	Igi (pa)	Ia (A)	Ig2 (mA)					
Ъ	5.0	1	-		-	-	-	If (A)	20	25	100%	1
٥	5•0	1000	-150	500	-	-	-	Cut-off Test Ia (mA)		100	100%	1
đ	5•0	1000	•	500	ı	0•25	•	Vacuum Test (hot) and Characteristics Test Vg1 (V) Ig1 (μΔ) Ig2 (mA)	-60	-110 20 30	100%	1,2
е	5.0 5.0	1000 1000	3 P	500 500	1 1	Ia1 I a 2	-	Mutual Conductance Test (<u>Ia2 - Ia1</u>) 1000 (mA/V) 20	6	12	100%	1
f	5•0	750	750	750	1	-	-	Total Emission Test Ie (A)	5		100%	3

NOTES

- 1. For this and subsequent tests, the filament shall be heated by A.C. 50 cps. current and the common return of grid and anode circuits shall be to the centre point of the filament transformer secondary (except as specified in test (f)). During the application of filament voltage, the filament current shall at no time exceed 40 amperes.
- Ig1 must not exceed the value specified at the end of 10 minutes run and must not be rising.
- 3. The emmission shall be measured by the discharge of a condenser charged to 750 volts and connected between the anode and grids strapped and one end of the filament.

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