valve electronic CV 1629

P.O. TELECOMMUNICATIONS HQRS. TD 2 (W)

(POVT 197)

Specification: G.P.O./CV1629/Issue 1a

Dated:

30.7.68

To be read in conjunction with K 1001

SECURITY

Specification

Valve

Unclassified

Unclassified

indicates a change

TYPE OF VALVE: Mercury vapour rect CATHODE: Directly heated ENVELOPE: Unmetallised glass PROTOTYPE RG3 - 1250; GU21	MARKING See K1001/4 Additional markings required (See Notes A & B) Serial No				
RATING Filament voltage (V) 4.0	BASE Goliath Edison Screw See K1001/AIV/D13.1 CONNEXION				
Nominal filament current (A) 7.0 Max. peak inverse voltage(kV) 11.0 Max. peak anode current (A) 5.0 Max. mean anode current (A) 1.2 Nominal voltage drop (V) 16.0		RG3 - 1250 s-	Pi: And OP CAP See K100	Filament Filament Anode CAP See K1001/A1/D5.4	
		DIMENSIONS See K1001/A1/D1 Dimension Min. Max. A (mm) - 250 B (nm) - 60			

NOTES

- The Serial Numbers will be allotted by the Inspecting Officer
- It is not essential that the additional markings shall appear within В. the frame.

To be performed in addition to those applicable in K1001.

	TEST CONDITIONS		TEST	LIMITS		No.	
	Vf(V)	Va(D.C)		Min.	Max.	Tested	Note
(a)	4.0	-	If (A)	6.0	8.0	100%	
(ъ)	4.0	Read	Anode voltage required to produce anode current of 1.25A (V)	-	18.0	100%	3
(c)	4.0	3.5 k V	D.C. output per valve (A)	1.0	•	100%	1 & 4
(d)	4.0	-11.0 kV	Inverse voltage	Reject for areing back		100%	2 & 4

NOTES

- This test shall be conducted in a bi-phase half-wave circuit, and its duration shall be fifteen minutes.
 No sparking or flash-over shall occur
- 2. The duration of test (d) shall be one minute.
- 3. An approved pulse emission test may be used as specified in K1006 4.10.1.2 with the Ia = 10A (pulsed) and a limit of Ea = 14v maximum.
- 4. Alternatively tests (c) and (d) may be done with the valve under test operated in a half-wave "cheater" circuit, in which the inverse Va is applied through a high resistance from a separate high-voltage low-current transformer provided that the circuit includes an arc-back indicator to record any arc-backs that may occur in the valve during test.

If test "b" is done using such a "cheater" circuit the test shall last for 5 minutes, with the operating frequency = 50 Hz, the D.C. output current = 1.25A, the peak Ia = 5A and the anode P.I.V. = 11kV min. The valve shall operate satisfactorily, and there shall be no arc-back or sparking throughout the test period.