VALVE ELECTRONIC CV2174

GENERAL POST OFFICE: E-IN-C (5)

Specification: GPO/CV 2174/Issue 1.	SECURITY		
Dated: November 1950	Specification	Valve	
To be read in conjunction with K 1CO1	Unclassified	Unclassified	

indicates a change

TYPE OF VALVE: 3 electrode Gas-filled Relay			MARKING					
					See K 1001/4			
	Glass G 240/2D				PACKING See K 1005			
RATING NOTE				BASE I.O. wafer metal shell. See Kippi/Aiv/Dz M Dimension (iv) applis				
Control gap b	reakdown Voltage	(nom)(V)	75		PIN		LECTRODE	
Control gap m	aintaining volta	ge(nom)	65		1	Metal ba	se shell	
Main gap brea	kdown voltage (m	in)(V)	240		2	Not connected		
Main gap maintaining voltage(nom)(V) 90				3	Anode			
Transfer current @ Va = 200V (pA)			10		4	Not connected		
Max direct ca	thode current	(mA)	30		5	Trigger		
ax Peak cath	ode current	(mA)	50		6)Interna	lly stra _l	ped
)ptimum opera	ting current	(mA)	20		7	5		
					8	Cathode		
						DIMENSIO	<u>NS</u>	
					See K 1001/A1/D1			
							mms.	mms . Max
						A		98.4
					1	В	-	33.3

CV2174 To be performed in addition to those applicable in K 1001

	TEST CONDITION	TEST	LIMITS		No.	
		11351	Min.	Max.	TESTED	
a	A D.C. voltage not exceeding 65 volts shall be applied between trigger electrode and cathode, the trigger positive with anode floating. This voltage shall be increased steadily at a rate not exceeding 25 volts per secuntil the valve strikes.		-	90	100%	
ъ	With conditions as for test a adjust control gap current to 20 mA	Control gap maintaining voltage (Volts D.C.)	-	75	100%	
c	A D.C. voltage not exceeding 200 volts shall be applied between anode and cathode, the anode positive and with trigger floating. This voltage shall be increased steadily at a rate not exceeding 25 volts per sec. until the valve strikes.	Main gap breakdown voltage (Volts D.C.)	230	-	100%	
đ	with conditions as for test c adjust the main gap current to 20 mA.	Main gap Maintaining voltage (Volts D.C.)	-	110	100%	
e	With 200 volts D.C. applied to the anode and with a microemmeter in series with a 10 megohm resistance connected in series with the trigger electrode the voltage to this electrode shall be increased steadily until the valve strikes. The current flowing in the trigger/cathode circuit immediately before the valve strikes shall not exceed the value specified.	Transfer current	-	15	100%	

NOTES

2. A protective resistance of 5000 ohms shall be connected in series for all these tests.

^{1.} The ripple content of the D.C. supply for tests a to e shall not exceed 0.5 per cent.

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AMENDMENT NO. 1.

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Against "Main gap break down voltage (min)"

amend 240 to read 230

November, 1952.

T.V.C. Office (for G.P.O.)

N.6101.