VALVE ELECTRONIC CV2314

ADMIRALITY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV2314	Issue No. 1	SECURITY		
Dated: 29.7.54. To be read in conjunction	with K1001.	Specification Unclassified	<u>Valve</u> Unclassified	

TYPE OF VALVE: Cathode Ray Tu	MARKING						
TYPE OF DEFLECTION: Magnetic				See K1001/4			
TYPE OF FOCUS: Magnetic SCREEN: BY8 (with aluminium be PROTOTYPE: CV429	BASE B12A Wafer with metal shell						
RATINGS	COMMECTIONS						
		Note	Pin	Electrode			
Heater Voltage (V) Heater Current (A) Max. First Anode Voltage (V) Max. Final Anode Voltage (kV) Max. Heater-Cathode Voltage (V) Min. Persistence (at Va2=15kV) (Seos)	6.3 0.6 600 15 150 12	В	1 2 3 4 5 6 7 8 9 0 1 1 2 C.	H G NO NO 1 0 H 42			
CAPACITANCES (pF) Max. Cg to all other electrodes Max. Cc to all other electrodes	15 8			SIDE CONTACT See K1001/A1/D5.1 DIMENSIONS See drawing page 4.			

NOTE

- A. Heater negative to cathode.
- B. Heater current may be 0.34 or 0.64 nominal.

TESTS

To be performed in addition to those applicable in K1001

	Te	st Cond	itions		m t	Limits		No	
	Vh (V)	Va2 (kV)	Va1 (V)	∇g (V)	Test	Min.	Max.	No. Tested	Note
a.	See K1001/5A.13				CAPACITANCES (pF) Grid to all other electrodes Cathode to all other electrodes	-	15 8	5% (20) 5% (20)	
b.	6.3	0	0	0	Ih (A)	. 28	.66	100%	
٥.	6.3	15	300	Adjust to out-off	-Vg (∇)	30	90	100%	
d.	Vg adjusted to give a beam current of 50 MA using a close rester of convenient size and C.2 filter (Type 26, Ref. 10AB(476)).			or of nd C.2	i Light output (candela) ii Change in value of Vg from test 'C' iii The brightness shall increase smoothly from out-off to Ib = 50/uA.	.20	- 30	100%	
6.	Vg adjusted to give a beam current of 50/uA using a close raster of convenient size and a C.2 filter.				i Light output (candela) ii Change in value of Vg from test 'C' iii The brightness shall increase smoothly from cut-off to Ib = 50 MA	-35	30	100%	
£.	scan of le width the c Grid. pulse out-c equal ed in inal ation	of 10 kmgth 25 h will keentre of The grant of position of the total total value of the to	co/s ar 50 mm, 50 mm, 50 meas of the rid wil tively 6 ampli 6 value 6 f puls 6 courrer	from tude o obtain- ne nom- se dur- noe rate	Line Width (mm)	-	0.7	100%	
g.	or wineth	15 ith reco od of K with 10 stor.	300 mmende 1001/54	-90 d 4.3.2.	Grid Insulation i.Leakage current (/uA) ii.Increase in voltmeter reading	-	9 100%	100%	

To be performed in addition to those applicable in K1001

	Test Conditions			8	m t	Limits		No.	
	Vh (V)	Va2 (kV)	Va1 (V)	∨g (∨)	Test	Min.	Max.	Tested	Note
h.		- 1001/5, tage of		shall	Heater-Cathode Leakage				
	be applied between heater and cathode.				Leakage Current	-	150	100%	
	6.3	15	300	Any con- venient value	Useful Soreen Area				
J.					Diameter (mm)	250	-	100%	
k.	6.3	15	300	Pulsed as in 'f'	Deviation of spot from centre of screen (mm). Unfocused spot dismeter (mm).		15	100%	
	No fo	ousing shall	or def	Clecting sent.		-	15	100%	
	6.3	15	300	Adjust	Persistence				
1.	Test to be performed with Test Set Type 331, using a close raster of con- venient size and filter N3				(secs.)	12	-	10%(2)	
	6.3	10	300	Adjust	Persistence				
m.	Test a clo	Set Tyr se rast	e 331,	med with using con- cilter N3		10	-	10%(2)	
	Within 75 mm radius of				Stones, Bubbles and Blemishes				
		e of so			0.75 mm dia. max.	-	6	100%	1
n,	n. Above 75 mm radius				1.0 mm dia. max.	-	6		
	Spacing between any bubbles to be greater than 20 mm. Bubbles less than 0.25 mm diameter to be ignored.								

NOTE

 The tube shall be operated with a close raster covering the usable area of the tube.

