VALVE ELECTRONIC CV953

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV953/Issue 2. SECURITY			
Dated 1.2.46.	Specification	Valve	
To be read in conjunction with K1003.	Restricted	Restricted	

TYPE OF DEFLECTION:-	Electrosta	tic		MARKING			
TYPE OF FOCUS:-	Gas (Argon) BGM 32			. See K1003/7.			
SCREEN:-							
PROTOTYPE:-	32G						
				BASE			
	RATING		Note	8-pin Bayonet (PB8)			
Filament Voltage	(v)	0.6					
Filament Current	(A)	1.2					
Max. Anode Voltage Va	(kV)	1.5		DIMENSIONS AND			
Modulator Voltage	(V)(Mean)	-165		CONNECTIONS			
X-plate Sensitivity	(mm/V)	<u>450</u>	A				
Y-plate Sensitivity	(mm/V)	Va 450 Va	, A	See Drawing, Page 3.			
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NOTE

A. Measured at Va = 1000 V.

CV953

TESTS

To be performed in addition to those applicable in K1003.

	Test Conditions					Limits		No.
	If (A)	Va (kV)	Vg (V)	Test		Min.	Max.	Tested
a	1.25	-	-	٧f	(v)	0.6	0.75	100%
b	1.25 1.5 Adjusted Vg adjusted for Ia = 150 AA.		Filament Saturation		A decrease of If by 0.05 A shall not decrease Ia by more than 10%		100%	
С	Adjusted 1.5 Adjusted An A.C. voltage to be applied to each pair of deflector plates so that an open raster of not less than 60 mm square is obtained.		(i) Focus and brilliance		To be no worse than a standard tube		100%	
	focussed b	shall be sha y adjustment oltages.	of Vg and	(ii) Vg	(A)	-140	-190	·
v	oltage and to	he correspon	ding filamen ent rating	he minimum for sa t current shall be volts	e mark	ed on that amps".	ne tube	
đ	Adjusted As test 'c'	1.5	Adjusted	Ia	(MA)	50	150	100%
e	to be oper 700, 900,	as in test 'ated with Va 1100 and 130' optimum ope	= 300, 500, 0 v ; v g ad-	Effect of Va on focus		No deteriora- tion in focus in comparison with 'c (i)' shall occur.		100%
f				Angle between X- and Y- plate axes.		87 ⁰	930	100%
g	Va = 1000 V.			Deflection sensitivities(X-plates Y-plates	mm/V)	1400 Va 1400 Va	500 Va 500 Va	10% (2)
h	See K1003/5	i. 10.		Deviation of sp from the centr of screen		-	10	100%
i	With normal If and with Vg set to cut-off, Va shall be increased to 3000 V for 5 secs.		High Va working		With condi- tions speci- fied the tube shall be free from flash- over.		100%	
				Insulation	(Mrs.)	200	I	100%

OUTLINE DIMENSIONS CV953/2/3 NOTE :-VIEWING THE SCREEN OF THE TUBE WITH THE BASE IN POSITION AS SHOWN 22 RAD A POSITIVE POTENTIAL
APPLIED TO CONTACT No 4
(X.I) SHALL DEFLECT THE
SPOT TO THE LEFT AND A
POSITIVE POTENTIAL APPLIED
TO CONTACT No. (2) (Y.I) SHALL
DEFLECT THE SPOT UPWARDS. 135± | DIA SCREEN DIA 225±2 124± 4 270 RAD 367±5 409± 5 63 DIA. Y. I. Y. 1 | | Y. 2 Ø X.L Ø 7次± 5° 50.25-1 DIA X. 2. 4211 DIA MOD Y. 2. F.