VALVE ELECTRONIC CV953

ADMIRALTY SIGNAL ESTABLISHMENT

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

TYPE OF DEFLECTION:-	Electrostatic			MARKING		
TYPE OF FOCUS:-	Gas (Argon)			See K1003/7.		
SCREEN: -	BGM 32					
PROTOTYPE:-	32G			•		
				BASE		
	RATING			8-pin Bayonet (PB8)		
			Note			
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	A	See Drawing, Page 3.		
1-place Sensitivity	(many v)	Va Va	n			

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	each pair that an op than 60 mm The trace focussed b	tage to be a of deflector en raster of square is o shall be shall	plates so not less btained. rply	(i) Focus and brilliance	(v)	To be r worse t standar		100%
v	filament voltages. Vf to be adjusted during test 'c' to the minimum for satisfactory operation. This voltage and the corresponding filament current shall be marked on the tube as follows: - "Minimum filament ratingvolts							
u	Adjusted As test 'c'	1.5	Adjusted	Ia	(ALA)	50	150	100%
e	to be oper 700, 900,	as in test tated with Va 1100 and 130 optimum ope	= 300, 500, 0 v ; v g ad-		No deterioration in focus in comparison with 'c (i)' shall occur.		100%	
f				Angle between X- and Y- plate axes.		87°	930	100%
g	Va = 1000 V	·		Deflection sensitivities(n X-plates Y-plates	m/V)	1400 Va 1400 Va	500 Va 500 Va	10% (2)
h	See K1003/5	.10.		Deviation of spo from the centre of screen		-	10	100%
i	With normal cut-off, Va 3000 V for	If and with shall be in 5 secs.	Vg set to creased to	High Va Working	High Va working With conditions specified the tube shall be free from flash-over.		100%	
j	See K1003/5	.4.1.		Insulation ((Mr)	200	-	100%

CV953/2/3

