CATHORE PAR TORS TYPE 1 7 VCR517

Specification MAP/CV1517; CV1591; CV1592; SECURITY CV1593; CV1594; CV1595/Issue 4 Dated 15.6.45 Specification RESTRICTED RESTRICTED To be read in conjunction with K. 1003

BULB	Note	VCR517C VCR517D VC 10CV/1593 10CV/1594 10 BASE 12 contact key base	ocv/1595
SCREEN		10cV/1593 10cV/1594 10 BASE 12 contact key base	ocv/1595
		12 contact key base	l
Wanter Walter (Walter)			·
Heater Current (amps) Maximum Final Anode Voltage (kV) Maximum First Anode Voltage (kV) 'X' Flate Sensitivity (mm/v) 'Y' Flate Sensitivity (mm/v) TYFICAL OFERATING CONDITIONS Final Anode Voltage (kV) Second Anode Voltage (v) 5	0 A 0 A	CONNECTIONS Pin Electrod	-
NOTES			

C:- The neck diameter may be reduced provided that rubber rings or other approved packing is supplied with

the tube to bring the overall diameter within the stated tolerance.

When viewing the screen with the tube positioned such that the base spigot is uppermost, a positive voltage applied to the terminal X₁ shall deflect the spot to the left and a positive voltage applied to the terminal Y1 shall deflect the spot upwards.

The internal conductive coating shall be of such dimensions that it functions effectively but does not obscure the required useful screen area.

Clause			t Conditions			ormed in addition to these s	Lir	No.	
- TELEST	Vb	Va (k	v) Va2	Va₁ (kV	vg	Test	Min.	Max.	Tested
(a)						INTER ELECTRONE CAPACITANCE 1. Each X or Y plate to all other electrodes. 2. Grid to all other electrodes. 3. One X to one Y - plate	-	25 25	5% (10) 5% (10) 5% (10)
(b)	4.0	1-0	0	10	10	Ih(A)	0.7	1.3	100%
(a)	to gi that of le	ive a s of a s ingth l	Ad- justed for optime pot brilli tandard tu 30 mm in t successive	ance on the X a	justed as and Vg equal to a line	1. Line Width	yre t stan	ot ater han dard ube	100%
(d)	Vg ac of 0.	032 ca	Adjust for op- timum focus to give a ndles on a	light	Ad- just	Vg(V)	To be least (-) Ve cathe	at t 1V	100%
(•)	4+0	3.0	ditto	2.0	Adjust to cut off.	1. Vg(V) 2. Change in value of Vg from test (d)	-	-80 40	100%
(f)		3.0 mended /5.4.2.	Any conveni- ent valu- method: Resistor	e .	-80	GRID INSULATION 1. Leakage Current (uA) 2. Increase in	-	16	100%
g)	4.0	3.0	Adjusted for op- timum focus	1	Any con- venient value	DEFLECTION SENSITIVITIES 1. X plate (nm/V) 2. Y plate (nm/V)	650/Vaz 790/Vaz	100% 790/Va3 970/Va3	
h)	4.0	3.0	ditto	2.0	ditto	Deviation of spot from centre of screen (mm)	-	10	100%
J)	4.0 3.0 ditto 2.0 ditto Deflections to cover stated circle centred on centre of screen.					USEFUL SCREEN AREA Diameter (mm)	130		100%
k)	4.0 3.0 ditto 2.0 ditto A screen area of at least 80 mm X 80 mm to be scanned with asymmetri- cal deflection.				mm Y	TRAFEZOIDAL DISTORTIONS 1. Angles between adjacent sides. 2. Angles between opposite sides	85 ° 175°	95 ° 185°	100%
1)	4.0	3.0	ditto	2.0	ditto	1. Orientation of X axis of deflection relative to 0.0' on drg. 2. Angle between X & Y axes of deflection	80° 85°	100 0	100%
2)	4.0	3.0	Un- focussed	2.0	ditto	The screen shall not be worse for graininess and non-uniformity than a standard tube or pattern.			100%
a)	4.0		Adjusted for opti- mum focus	2.0	ditto	The afterglow character— istic shall be satis— factory when examined by an approved method.			100%

Page 3								• ,,	<u> </u>
Clause		est Co				Test	Lin		No.
	Vh	Va (kV)	Va ₂	Val (kV)	Vg		Min.	Max.	Tested
_						Spectral Distribution			
p)	Vg an	3.0 I raster re a br	r size	adjus	ditto ted 8±25% EFC	Ratio:- Idght Output Thro' C2 filter	-	3	100% (Note 1)
>te 1:-	It will and to	ll norm	elly be test (sati. p) can	sfactory i	to make a visual examination of the of doubt.	ne colou	r of the	screen
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ALL DIA	MENSIO	NS IN	MILL	.IME T	RES.	R. S.			oʻ
T	1	2	×				ΑÖ.	12 210	
- -	╫	AAD.0	400 M	AX.			00 00		
— ↓_	<u>_</u>	SEE N	OTE C				/	8	1
COAT	RNAL Ć ING SH NOTE E	OWN SH	HADED				'		O N OF UNDER
	•				-	IB5 MAX.	•		
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