Specification MAP/CV1530/Issue 2	SECURITY			
Dated 13.12.45. To be read in conjunction with K1003	Specification	Tube		
10 be read in Conjunction with Kico	CONFIDENTIAL	RESTRICTED		

Indicates a change

TYPE OF DEFLECTION - Magnetic				
TYPE OF FOCUS - Electrostatic BULB - Internally coated with conductive coating. SCREEN - YYM36	MARKING VCR-530 10CV/1530 BASE I.00.			
RATING Heater Voltage Heater Current Max. First Anode Voltage Max. Third Anode Voltage TYPICAL OPERATING CONDITIONS Third Anode Voltage Second Anode Voltage First Anode Voltage Working Beam Current (peak) Working First Anode Current Working First Anode Current VA VA VA VA VA VA VA VA VA V	7.0 1.0 1.45 8.0 7.0 1.25 250 500	Note A A	F1.	Electrode No connection First Anode Second Anode No connection Grid Cathode Heater Heater Third Anode DE CONTACT ush Type. ENSIONS AND ONNECTIONS awing on page 4.

NOTES

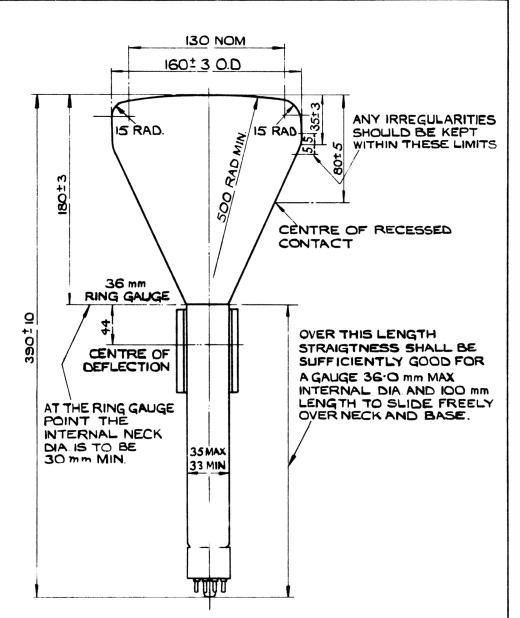
- A:- The tube shall be capable of operating with these voltages at a pressure equivalent to 4.45° of mercury at 15°C.
- B:- The first anode must always be at least 50V. positive to the second anode and the supply network must take account of variations in first anode current from zero to working value.



	C	XI.	530	C	be per		STS addition to those appli-	•	Page	2
						cable	in K1003			
		Test Conditions Vh Va3 Va2 Va1 Vg				٧g	Test	Limits Min. Max.		No. Sested
	_		(kV)	(kV)	(kV)			ļ		
	a						INTERELECTRODE CAPACITANCE (pF)			-41>
	_						Cg- all	-	25	5%(10)
-	р	4.0	0	0	0	0	Ih (A)	0.7	1.2	100%
	c	4.0	7•0	Adjust for opti- mum focus	1•25	Adjust to cut off	Vg (V) Value to be noted	-	-100	100%
	đ	4.0		•	1.25	_	1. Vg (V)	-1	-	100%
-			£ 2.5	to give candles o			2. Change in value of Vg from test(c) (V) 3. Within the range of grid voltage from out off to standard light output the	-	55	100%
							beam current shall increase continuously.			100%
	0	base lengt direct line the c GRID posit to th (d.2) pulse	of 10 th of 1 tions width entre - The tively ne value, the	With a Kc/s nom. 35 mm. in successiv will be m of the tr grid will with ampl e obtaine nominal v ion and r	and 1 X and ely, easure ace. be pu itude id in t alues ecurre	ine Y the d at lsed equal est of	1. Line width (mm) 2. Va2 (V)	900	1200	100%
		rospe	g 100/u octivel	secs. and	100 a	/s				
	ſ	4.0	7.0	Any con- venient value	1.25	-100	GRID INSULATION 1. Leakage current (/uA) 2. Increase in	-	20	100%
		See K1003/5.4.2. Resistor = $5 \text{ M}\Omega$					in voltmeter reading	-	100%	100%
	g	4.0	7•0	ditto	1.25	Any convenient	Deviation of spot from centre of screen (mm)	-	10	100%

CV1530

	Test Conditions					Test	Lin	Limits	
	Vh	Va3 (kV)	Va2 (kV)	Va1 (kV)	Vg		Min.	Max.	Tested
h	4.0	7•0	Any conve- nient value	1.25	Any con- ven- ient value	USEFUL SCREEN AREA Diameter (mm)	135	-	100%
j	4.0 7.0 - 1.25 ditto Deflecting field to give a raster covering the useful screen area. The spot shall be defocussed such that separate lines shall not be discernable on the raster.					1. The screen shall reworse for graining standard pattern. 2. The variation of the over any part of the shall not exceed a	ss than rightnes he area	s	100% 100%
k	Test to be performed using Test Set 331.					After-glow (secs.)	4	16	10%



THE ANGLE BETWEEN THE PLANES THROUGH THE TUBE AXIS AND THE CENTRE OF THE SIDE CONTACT, AND THE TUBE AXIS AND THE KEY IN THE SPIGOT OF THE BASE SHALL NOT BE MORE THAN ± 10°

ALL DIMENSIONS IN MILLIMETRES