

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS/GV2490

ISSUE 1 DATED 31.12.58

AMENDMENT NO.1

Page 2 Clause 5A.8 Light Intensity

In Column headed "LIMITS Min."  
amend figure from "20" to "15"

T.V.C. for R.R.E.

August, 1959.

N.71101

Specification MOS/CV 2490 Issue 1 dated 31st December, 1958. To be read in conjunction with K1001(7) and BS448	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ indicates a change

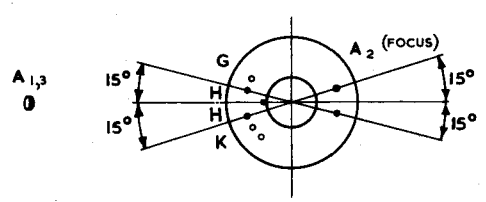
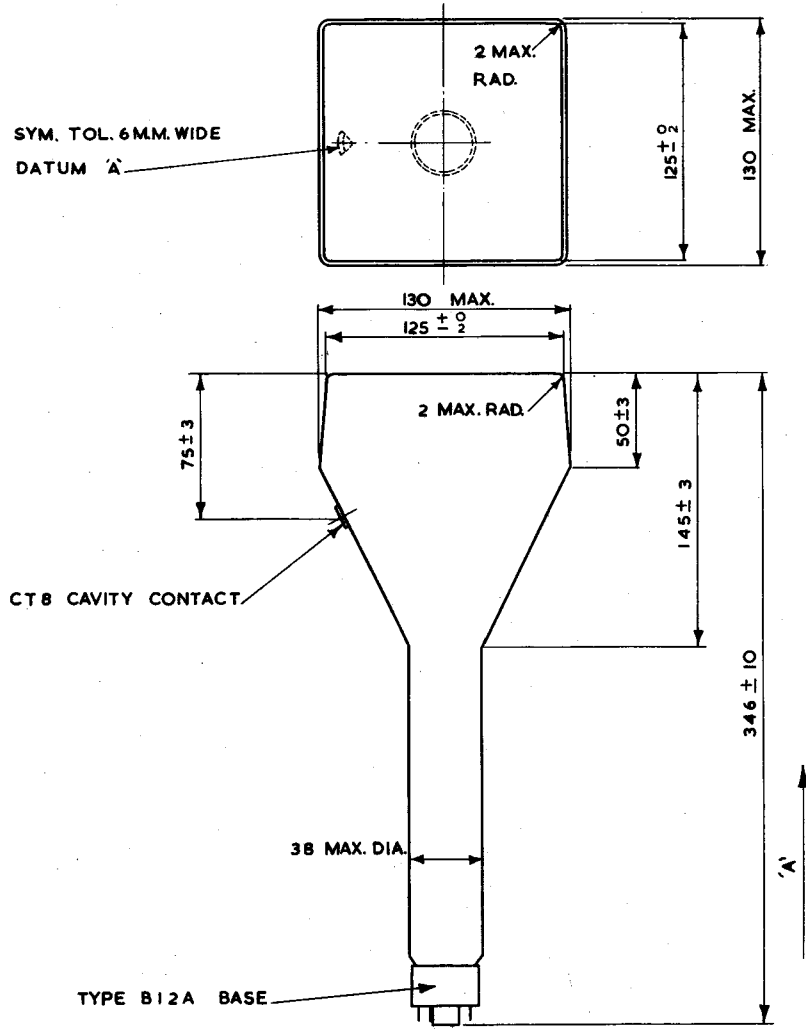
TYPE OF VALVE - Cathode Ray Tube DEFLECTION - Magnetic FOCUS - Electrostatic BULB - Glass with internal conductive coating SCREEN - YG/7 PROTOTYPE - M6SJ-303	<u>MARKING</u> See K1001/4																																												
	<u>BASE</u> BS448/B12A																																												
<p style="text-align: center;"><u>RATINGS</u></p> All limiting values are absolute	<p style="text-align: center;"><u>CONNECTIONS</u></p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Pin</th> <th style="text-align: left;">Electrode</th> </tr> </thead> <tbody> <tr><td>1</td><td>Heater, h</td></tr> <tr><td>2</td><td>Grid, g</td></tr> <tr><td>6</td><td>Anode 2, a2</td></tr> <tr><td>7</td><td>External coating</td></tr> <tr><td>10</td><td>No connection</td></tr> <tr><td>11</td><td>Cathode, k</td></tr> <tr><td>12</td><td>Heater, h</td></tr> <tr><td>S.C.</td><td>Anode 1, /Anode 3, a1/3</td></tr> </tbody> </table>	Pin	Electrode	1	Heater, h	2	Grid, g	6	Anode 2, a2	7	External coating	10	No connection	11	Cathode, k	12	Heater, h	S.C.	Anode 1, /Anode 3, a1/3																										
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<p style="text-align: center;"><u>CAPACITANCES</u></p> Cg-all (nom) (pF) 9.5 Ck-all (nom) (pF) 6.5	<p style="text-align: center;"><u>DIMENSIONS</u></p> See drawing on page 4																																												
<p style="text-align: center;"><u>NOTES</u></p> A. Absolute Maximum Value																																													

CV2490/1/1

General Test Conditions:								
Vh(V)	Va1, Va3 (kV)	Vg(V)	Va(V)	Vhk(V)				
6.3	8	Adjust	Adjust	0				
An interlaced 405 line TV raster may be used when required.								
K1001	TEST	TEST CONDITIONS	AQL %	Insp. level	Sym- bol	LIMITS		Units
						Min.	Max.	
5A.1	General Inspection Dimensions	No voltages No voltages, see drawing on page 4		100% 100%				
5A.2	Loose Particles	No voltages		100%				
5A.3.1	Insulation	No voltages		100%				
5A.3.2	Grid Insulation	Vg = -75V		100%	Ig	-	10	/μA
5A.3.3	Heater-cathode leakage current	Vhk = -150V Va1, Va3 = 0		100%	Ihk	-	100	/μA
	Heater current			100%	Ih	0.45	0.55	A
5A.10	Negative grid out- off voltage V1	Optimum Focus No deflection		100%	Vg	37	75	V
	Grid voltage V2	Ik = 100 μA Scan applied		100%	Vg	record	V1	V
	Grid Drive	V1 - V2		100%	Vg	15	35	V
5A.7	Focus; line width at Four 90° points	Circular scan diameter = 60mm (nom)		100%		-	0.35	mm
	Focus voltage	Ik = 10 μA Optimum focus		100%	Va2	-100	+100	V
5A.8	Light Intensity	Focussed raster area = 48 sq.cm. Ik = 10 μA		100%		20	-	Foot- Lamberts
5A.12	Useful screen area			100%		108 x 108	-	mm <sup>2</sup>
5A.17	Persistence measured as decay time to 1% brightness	Linear raster of convenient size, uniform screen excitation, Ik = 10 μA		100%		1	5	sec
	Flashover and Spurious Emission	Vg = -100V Va1, Va3 = 10KV Note 1		100%				
5A.2	Screen Blemishes, Stones, Bubbles and Screen Defects.	Scan over useful screen area with defocussed raster of convenient brightness.		100%				
	Size 0.25 to 0.6mm						10	
	Size 0.6 to 1mm						5	
	Size above 1mm						0	

NOTE

1. There shall be no visible fluorescent after a preheating period of two minutes.



BASE CONNECTIONS VIEWED  
IN DIRECTION OF ARROW 'A'  
SHOWING LIMIT OF ORIENTATION  
OF BASE WITH RESPECT  
TO CAVITY CONTACT.

DIMENSIONS IN M.M.