ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT ASWE

VALVE ELECTRONIC C.V.2328

Specification AD/CV2328 Issue No. 2 Dated: 28. 8. 56. To be read in conjunction with K1001 B.S.448 and B.S.1409	SECURITY	
	Specification	Valve
	Unclassified	Unclassified

→ Indicates a change

TYPE OF VALVE: Cathode Ray Tube	MARKING
TYPE OF DEFLECTION: Magnetic	See K1001/4
TYPE OF FOCUS: Magnetic	
BULB: Glass	See K1001/A1V/1.2 M Dimension (V) applies BASE
SCREEN: 008 with aluminium backing	B.S.448/B8-0
SCREEN SIZE: 12 inch	DIMENSIONS
PROTOTYPES: CV1869 and 12T03A	See drawing on Page 4

RATING (All limiting values are absolute)			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.65	
Max. First Anode Voltage	(V)	850	
Max. Second Anode Voltage	(kV)	12	
Max. Heater/Cathode Voltage (heater negative to cathode)	(V)	150	

CONNECTIONS

Pin	Electrode
1	NC
2	h
3	al
4	NC
5	g
6	NC
7	k
8	h
Side Contact	a2

SIDE CONTACT

See K1001/A1/D5.2

NOTE

A. The fluoride screen shall not contain beryllium.

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TESTS

To be performed in addition to those applicable in K1001

	Test Conditions Vh (V)	Va2 (kV)	Va1 (V)	Vg (V)	Test	Limits Min.	Limits Max.	No. Tested	Note
a	See K1001/5A.13				Capacitances (pF) i. Grid to all other electrodes. ii. Cathode to all other electrodes.	- -	9 8	5% or 20	
b	6.3	-	-	-	Ih (A)	-	0.65	100%	
c	6.3	10	800	Adjust to cut off	Cut Off Negative Vg (V)	50	115	100%	
d	6.3 Spot to be deflected off the usable screen area, or scanned. Adjust Vg to Ib = 50 µA.	10	800	-	Change in Vg from value found in test 'c' (V)	-	30	100%	
e	6.3 Vg to be adjusted to give a light output of 0.15 candela with a raster 14 cms x 14 cms.	10	800	Adjust	Light Output and Beam Current (Ib) Ib (µA)	-	7.5	100%	
f	6.3 Focus adjusted to optimum. Deflection With a linear scan of 10 kc/s and a line length of 250 mm, the line width shall be measured at the centre of the trace. Grid The grid to be pulsed positively from cut-off with amplitude equal to the value obtained in test 'd', the nominal value of pulse duration being 100 µ secs., and the repetition rate 25 p.p.s.	10	800	-	Line Width (mm)	-	0.5	100%	

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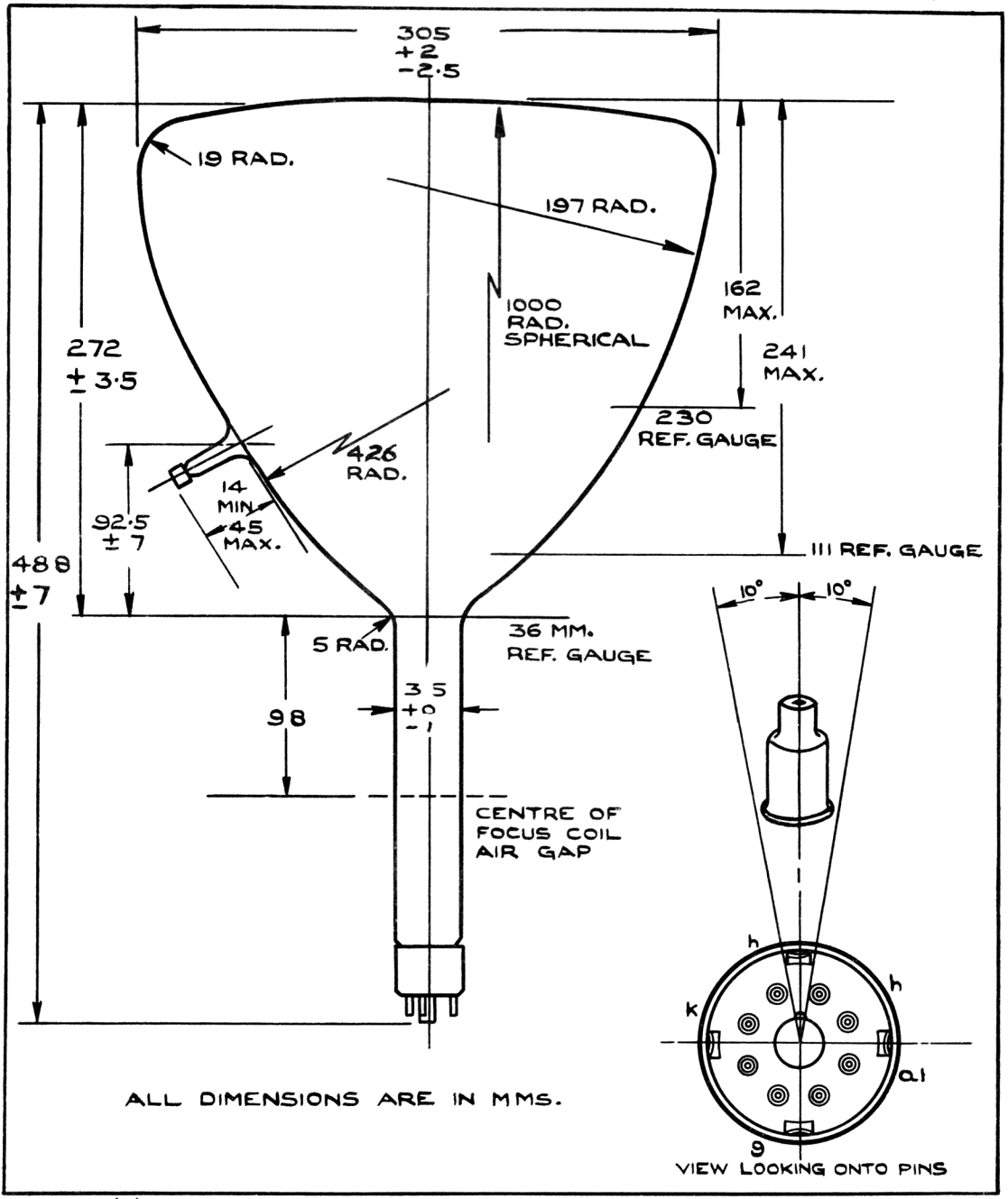
TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested	Note
	Vh (V)	Va2 (kV)	Va1 (V)	Vg (V)		Min.	Max.		
g	6.3	10	800	-115	Grid Insulation i. Leakage Current (μA)	-	11.5	100%	
	or Recommended Method: See K1001/5A.3.2 and with 10 Megohms resistor				ii. Increase in Voltmeter reading	-	100%		
h	6.3	-	-	-	Heater Cathode Leakage Leakage Current (μA)	-	150	100%	
	See K1001/5A.3.3 150 Volts applied between heater and cathode.								
j	6.3	10	800	Any convenient value	Useful Screen Area Diameter (mm)	265	-	100%	
k	6.3	10	800	-do-	Deviation of spot from centre of screen. (mm)	-	12	100%	
	No focussing or deflecting fields to be present.								
l	6.3	10	800	Any convenient value	Persistence Time taken from cessation of excitation for light output to decay to 0.5% of initial value. (secs.)	120	-	10%	
	Vg to be adjusted to give a light output of 0.15 candela with a raster 14 cms x 14 cms.								


305
+2
-2·5
19 RAD.
197 RAD.
1000
RAD.
SPHERICAL
162
MAX.
241
MAX.
230
REF. GAUGE
111 REF. GAUGE
272
± 3·5
426
RAD.
14
MIN.
45
MAX.
92·5
± 7
488
± 7
5 RAD.
36 MM.
REF. GAUGE
98
35
+0
-1
CENTRE OF
FOCUS COIL
AIR GAP
10°
10°
h
h
k
g1
9
VIEW LOOKING ONTO PINS
ALL DIMENSIONS ARE IN MMS.