VALVE ELECTRONIC CV302

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV302/Issue 5.	SECURITY		
Dated 16.1.47. To be read in conjunction with K1001.	Specn. Restricted	Valve Unclassified	
10 be read in conjunction with kico.	1.05012000	0	

-> Indicates a change.

TYPE OF VALVE:- Triode - Heptode. CATHODE:- Indirectly heated. ENVELOPE:- Glass, enclosed in metal	MARKING See K1001/4. BASE AND CONNECTIONS					
PROTOTYPE:- ECH22.		B8G (MOD.)				
RATING	Note	See K1001/AIV/D12 except for dimension S max. = 32 mms.				
Heater Voltage (V)	6.3		Pin	Electrode		
Heater Current Max. Heptode Anode Voltage Max. Grid Voltage Max. Grid 2 and Grid 4	0.33 300 -1.3 100	A B C	1 2 3 4	Heater Heptode Anode Triode Anode Triode Grid,		
Voltage (V) Max. Triode Anode Voltage (V) Max. Triode Anode Dissipation (W) Max. Grid-Cathode Resistance (M.A.)	\ 300 175 0•8 3•0	C	5 6 7	Grid 3. Grid 2, Grid 4. Grid 1. Cathode, Grid 5 internal		
TYPICAL OPERATING CONDITIONS (Heptode Section)			8 Spigot	shield Heater Metal shell		
Anode Voltage (V) Grid 3 resistor (\Omega_\) Grid 3 current (\mu A) Grid 1 Voltage (V)	250 50,000 200 -2.0		<u>DIMENSIONS</u> See drawing Page 3.			
Anode Current (mA) Grid 2 - Grid 4 current (mA) Internal Resistance (M.N.) Conversion Conductance (MA/V)	3.0 6.2 1.4 750		NOTES A. For grid current of 0.3 ALA.			
CAPACITANCES (pF. approx.)	7.0		B. For Ia = 3 mA. C. For Ia <1 mA.			
Cgh Cah Cag1 C Triode grid/grid 3 Ca Heptode/a Triode	7•2 9•0 0•005 9•3 2•1	D D	0	pacities capable f producing a hum n equipment.		



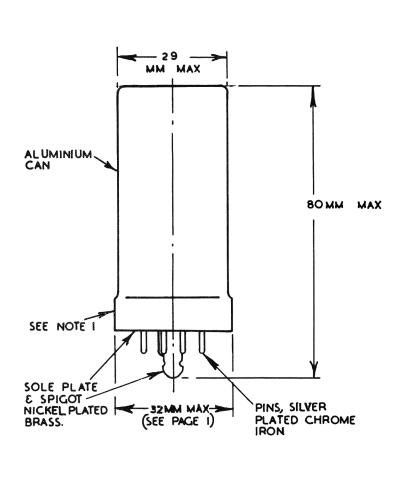
TESTS

To be performed in addition to those applicable in K1001.

1		Test Conditions							1,				
		Vh	VaH	Vg2	Vg1	VaT	VgT	Test		Limits		No.	Note
		(V)	(4)	(V)	(v)	(V)	(V)			Min.	Max.	Tested	
	а	6.3	-	-	-	-	-	Ih	(A)	0.31	0.35	100% or S	
>	b	6.3	_	-	-	15 (AC)	15 (AC)	Ie	(mA)	35	-	100%	5
→	c	6.3	15 (AC)	15 (AC)	15 (AC)	-	-	Ie	(mA)	35	-	100%	5
	đ	6.3	300	100	0	175	- 3	Heptode Ia	(mA)	7•8	14.4	100%	
	е	6.3	300	100	-4	175	- 3	Heptode Ia	(mA)	1.7	3•5	100%	
	f	6.3	300	100	- 20	175	- 3	Heptode Ia	(AA)	-	125	100%	1
	g	6.3	300	100	0	1 7 5	- 3	Triode Ia	(mA)	8•5	17.0	100%	
	h	6.3	300	100	0	175	-13	Triode Ia	(mA)	-	2.5	100%	
	j	6.3	300	100	-	175	- 3	Ig2 + I <i>g</i> 4	(mA)	3•3	5•7	100%	2
	k	6.3	300	100	-4	175	-4	Heptode Reverse Ig1	(ALA)		0.6	100%	
	1	6.3	300	100	-4	175	-4	Triode Revers e Ig	(AuA)	_	0.6	100%	
	m	6.3 75 V. between H and C (cathode positive)						Insulation	(ALA)	-	22	100%	4
		NOTES											

NOTES

- 1. Protective Resistance of 1 M _O_in anode circuit.
- 2. Cathode Resistance of 165 1.
- 3. All triode grid voltages are measured with respect to the cathode.
- 4. Protective Resistance of 1 Megohm in series.
- 5. This is a "spot reading" of the mean current, measured on a D.C. ammeter, and the value if not meant to be run at this rating for more time than is required to take the reading.



SPECIFICATION NO. AD/CV302 ISSUE 5 DATED 16.1.47. AMENDMENT "A"

Drawing on page 3 - overall length.

For "80 mm Max." read "90 mm Max."

A.S.R.E. EXTN., WATERLOOVILLE.
20.1.1948.