VALVE ELECTRONIC

CV 1573

Specification MAP/CV1573/Issue 5
Dated 25.1.46.
To be read in conjunction with K1001.

Security
Specification
Valve
RESTRICTED

Indicates a change

TYPE OF VALVE - Double Triode.				MARKING			
<u>CATHODE</u> - Indirectly Heated.	See K1001/4						
ENVELOPE - Glass - Unmetallised.			566 K1001/4				
PROTOTYPE - TVO3-10 (mod.)							
RATING			BASE				
Heater Voltage (V)	12.0	Note	B5				
Heater Current (A)	0.44		Pin	Electrode			
Max. Anode Voltage (V) Max. Anode Dissipation per	500 5 3.2 12.5 3,900 10 11–14 75	A	1 Grid 1 2 Grid 2				
anode (W)  Mutual Conductance $(mA/V)$			3 Heater 4 Heater				
Amplification Factor			5	Cathode			
Anode Impedance ( $\Omega$ ) Max. Grid Current (total for both		A	TC1 TC2				
grids) (mA) Range of Vh for satisfactory			TOP CAPS				
operation (V)			See K1001/AI/D51.				
Max. Operating Frequency (Mc/s)							
CAPACITANCES (pF)	DIMENSIONS						
Cac	See K1001/AI/D1.						
Cgo Cag	B	Dimensi	Min.	Max.			
Ca1a2	3.3 1.0		A (mm) 114 B (mm) -			127 46	
<u>notes</u>	č	(mm)	-	38			
A:- Va = 300V, Vg1 = -17V, Ia = 17	mA.						
B:- These figures apply to each half of the							
valve.			L				
TOP CAPS  On this and the state of the state							
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TESTS

CV1573

To be performed in addition to those applicable in K1001.

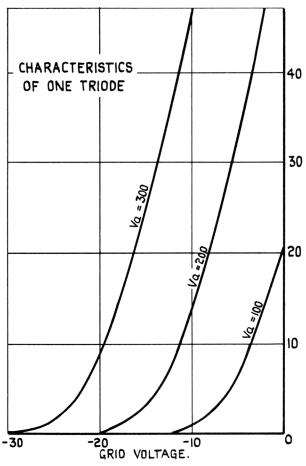
$\Box$	Test Conditions				Test		Limits		No.		
						1050	Min.	Max.	Test- ed.	Note	
а	Se	See K1001/AIII									
	Links		Links to		Links	CAPACITANCES (pF)					
	H•P		L.P.	to E	Omitted					6	
	TC1,2	•	TC2,1.	6,7,8, 9,10.	3,4,5.	A <sub>1</sub> G <sub>2</sub> to		8.0	10.0	week	
	Vh		Va	Vg1	Ia(mA)					100%	
b	12.0		0	0	-	Ih	(A)	0-41	0.47	or S	
С	12.0 Both	nalv	300 es in par	allel.	10 total	Total Reverse Ig (uA)		-	5•0	100%	
đ	12.0	Strapped. A.C.vol- tage at 50 c/s applied to give mean Ic between 40mA. and 60mA.		Ic changeduring 3 after aption of tage. Drop Rise	Osecs. plica-	_	<b>3.</b> 0 5 <b>.</b> 0	100%	1		
е	12.0 Peak	gri	300 d swing ±	- 1.0V. ma	22 x.	gm (n	u <b>A∕</b> ∇)	2.5	4 <b>.</b> 0	100%	1
f	12.0		300	-	2	1.Vg 2.Differe between r ings for half.	ead-	-20	<b>-</b> 27	100%	1
h	Valves shall be tested to ensure that no appreciable coupling exists between the grid of one section and the anode of the other. The nature of the test can be determined by the manufacturer.										

## NOTE

1:- Tests (d), (e) and (f.1) shall be applied to each half of the valve, the half not being tested to be "cut-off".

TYPICAL	OPERATING CLASS C RF AMPLIFIER.	CONDITIONS.  CLASS B RF  AMPLIFIER  ( MODULATED  INPUT )	ANODE MODULATION
WAVELENGTH	5	5	5 M
ANODE VOLTAGE	300	30	275 V
GRID VOLTAGE	-100	-25	-100 V
ANODE CURRENT	66	42	62 M A
GRID CURRENT	14	12 *	15 m A
GRID RF PEAK VOLTAGE (G-G)	290	50	310 V
ANODE DISSIPATION	7.8	9.45	6·7 W
OUTPUT POWER	12	3.15	10·3 W
EFFICIENCY	60.5	25	60·5 %
RF EXCITATION POWER	4.1	0.6*	4·7 W
MODULATION POWER	-	-	9 # W

# AT 100% MODULATION.



SOURCE OF CURVE & DATA: MULLARD CAT, SHEET FOR TV03-10 COPYRIGHT RESERVED.