

Specification MAP/CV1047/Issue 8 Dated 20.1.49 To be read in conjunction with K.1001.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Triode <u>CATHODE</u> - Directly heated <u>ENVELOPE</u> - Glass - unmetallised <u>PROTOTYPE</u> - TZ05 -20, VLS. 417.		<u>MARKING</u> See K1001/4	
		<u>PACKING</u> See K1005	
<u>RATING</u>		<u>BASE</u> B4 - Special low loss	
	Note	Pin	Electrode
Filament Voltage (V)	6.0		
Filament Current (A)	1.1		
Max. Anode Voltage (V)	600		
Max. Anode Dissipation (W)	20	1	Anode
Mutual Conductance (mA/V)	5.0	2	Filament
Amplification Factor	25	3	Filament
Anode Impedance (Ω)	5000	4	Grid
Total Emission (approx.) (A)	0.6		
Average Anode Current (mA)	30		
Max. Operating Frequency (Mc/s)	20		
		<u>DIMENSIONS</u> See K. 1001/AI/D1	
<u>CAPACITANCES (pF)</u>		Dimensions Min. Max.	
Caf	3.5	A	(mm) 130
Cgf	6.5	B	(mm) - 150
Cag	10		70

NOTES

A: At Va = 400, Ia = 50 mA.

B: At Va = 600, Vg = -10.

To be performed in addition to those applicable in K.1001.

Test Conditions				Test	Limits		No. Tested	
					Min.	Max.		
Measured using Adaptor type 36. Ref.10A/13332				<u>CAPACITANCES</u> (pF)			6 per week	
See K.1001/AIII								
Links to H.P.	Links to L.P.	Links to E						
1	2,3	4,5,6,7,8,9,10, TGL, TC2						
4	2,3	1,5,6,7,8,9,10, TGL, TC2		1. Cae	-	5.5		
1	4	2,3,5,6,7,8,9,10 TGL, TC2		2. Cge	-	10.5		
				3. Cag	9	12		
b	Vf	Va	Vg	Ia (mA)	If (A)		100% or S	
	6.0	0	0	0				
c	6.0	100	-100 D.C. + A.C. adjusted to give required Ia	80	Vg (V.RMS)	-	160	100%
d	6.0	300-400	0	-	Ia change (mA)	14.5	20	100% or S
e	6.0	350	-1 to +1	-	Ia change (mA)	7.0	-	100%
f	6.0	500	-	60	<u>DISSIPATION</u> There shall be no loss of vacuum or emission or other signs of breakdown. Variation of Vg. (V)		0.4	100% or S
Conditions maintained for 5 minutes								
g	6.0	500	-	40	1. Reverse Ig (mA) 2. Vg (V)	-2.5	20 -6.0	100%
h	6.0 to 5.4	500	-	60	Ia change (mA)	-	5.0	100%
j	6.0	300	-100 D.C. + A.C. adjusted to give required Ia	90	Mean Ig (mA)	3.0	-	100% or S
Conditions maintained for 5 minutes								
<u>NOTE</u>								
1: Tests 'f', 'g', 'h' and 'j' shall be performed in the order indicated.								