

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV1363/Issue 6 Dated:- 15.12.47 To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.	<u>SECURITY</u> <u>Specification</u> Restricted	<u>Valve</u> Restricted
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—→ indicates a change

<u>TYPE OF VALVE:-</u> Transmitting triode				<u>MARKING</u>	
<u>CATHODE:-</u> Directly heated				See K1001/4	
<u>ENVELOPE:-</u> Glass - unmetallised					
<u>PROTOTYPE:-</u> DET16					
<u>RATING</u>			<u>Note</u>	<u>BASE</u>	
				T4	
Filament voltage	(V)	10.0	A	<u>Pin</u>	<u>Electrode</u>
Filament current	(A)	5.5		1	Control grid
Max. anode voltage	(V)	3000		2	Filament
Max. anode dissipation	(W)	200		3	No connection
Mutual conductance	(mA/V)	4.9		4	Filament
		(min)		T.C.	Anode
Anode impedance	(ohms)	11,500	A		
<u>NOTES</u>				<u>DIMENSIONS</u>	
A. Measured at $V_a = 3000$, $V_g = -27$				See K1001/AI/D1	
				<u>Dimension</u>	<u>Min.</u> <u>Max.</u>
				A mm	- 246
				B mm	- 65

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. tested
						Min.	Max.	
	Vf	Va	Vg	Ia (mA)				
a	10.0	-	-	-	If (A)	5.0	6.0	100%
b	Read	1000	-	10	Vf (V)	-	5.0	100%
c	10.0	3000	adjust	67	Dissipation and Rev. Ig. Total Ig (uA) True backlash current (uA) (Note 1)	- -	7.0 4.0	100%
d	Test given in clause b to be repeated							100%
e	10.0	3000	Read	67	Vg1 (V)	-23	-31	100%
f	10.0	3000	± 5V from that obtained in clause e		gm (mA/V)	4.9	-	100%

NOTES

1. Valve to be run for 10 minutes, grid voltage and grid current to be recorded at 2 minute intervals; after the first 2 minutes the grid voltage shall not vary by more than ± 1 volt.