

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

(NR63/607G/POVT194)

Specification MOS/CV587/Issue 6

Dated:- 18.6.46

To be read in conjunction with K1001.

SPECIFICATION

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Restricted

Valve

Restricted

—→ indicates a change

TYPE OF VALVE:- Double diode triode

CATHODE:- Indirectly heated

ENVELOPE:- Glass-ummatalised

PROTOTYPE:- 6Q7G, DH63

MARKING

See K1001/4

Additional marking:-

6Q7G.

RATING

Heater voltage	6.3	
Heater current (A)	0.3	
Max. anode voltage	300	
Anode current (mA)	1.1	A
Mutual conductance (mA/V)	1.2	A
Amplification factor	70	A
Anode impedance (ohms)	58,000	A

CAPACITANCES (pF)

Cag	1.7
Cge	2.2
Cae	3.2

Note

BASE See K1001/A1V/D2
IO M Dimension (V)
applies

Pin	Electrode
1	No connection
2	Heater
3	Anode
4	Diode 2
5	Diode 1
6	Pin omitted
7	Heater
8	Cathode
TC	Control grid

TOP CAP

See K1001/A1/D5.2

NOTES

A. At $V_a = 250V$, $V_{g1} = -3V$.

DIMENSIONS

See K1001/A1/D1

Dimension	Min.	Max.
A mm	105	114
B mm	-	40

TESTS

To be performed in addition to those applicable in K1001

	Test conditions			Test	Limits		No. tested
					Min	Max	
a	Vh	Va	Vg	Ih (A)	0.27	0.33	100% or S
	6.3	0	0				
b	<u>Triode Section</u>			Ia (mA)	0.7	2.0	100%
	6.3	250	-3				
c	6.3	250	-3	gm (mA/V)	0.8	1.5	100%
d	6.3	250	-3	Rev Ig (uA)	-	1.0	100%
e	<u>Diode Section</u>			Id (mA) (Note 1)	0.8	-	100%
	Vh		Vd				
	6.3		+10				

NOTES

1. This test to be applied to both diodes.