

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

Specification MOS/CV783/Issue 2 Dated:- 13.11.46 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

—————> indicates a change

<u>TYPE OF VALVE:-</u> Power amplifier pentode			<u>MARKING</u>			
<u>CATHODE:-</u> Directly heated			See K1001/4			
<u>ENVELOPE:-</u> Glass-ummetallised			Additional marking :-			
<u>PROTOTYPE:-</u> 1S4			1S4			
<u>RATING</u>		Note	<u>BASE</u> B7G			
			Pin	Electrode		
Filament voltage (V)	1.4	A	1	F-ve, G3		
Filament current (mA)	100		2	Anode		
Max. anode voltage	100		3	Control grid		
Max. screen voltage	75		4	Screen grid		
Mutual conductance (mA/V)	1.5		5	F-ve, G3		
Anode impedance (approx.) (MΩ)	0.1		6	Anode		
Anode current (mA)	7.4		7	F+ve		
Screen current (mA)	1.4			<u>DIMENSIONS</u>		
Max. cathode current (mA)	11.0			See K1001/AI/D4.		
<u>NOTES</u>			Dimension	Min.	Max.	
A. Measured at $V_a = 90$, $V_{g2} = 67.5$, $V_{g1} = -7$.			A mm	-	54	
			B mm	-	19	

TESTS

To be performed in addition to those applicable in K1001

	Test conditions				Test	Limits		No. tested
	Vf	Va	Vg2	Vg1		Min.	Max.	
a	1.4	-	-	-	I _f (mA)	88	112	100% or S
b	1.4	90	67.5	-7	Rev. I _g (uA)	-	1.0	100%
c	1.4	90	67.5	-7	I _a (mA)	5.1	9.7	100%
d	1.4	90	67.5	-7	I _{g2} (mA)	0.85	2.1	100% or S
e	1.4	90	67.5	-7	g _m (mA/V)	1.3	1.85	100%
f	1.1	90	67.5	0	I _a (mA) (Note 1)	12	-	100%
g	1.4	90	67.5	-16.5	I _a (cut off) (uA)	-	200	100% or S

NOTES

1. This is a snap test.