

OUTPUT PENTODE

Output pentode with centre-tapped filament
suitable for R.F. and A.F. applications.

DL93

3A4

FILAMENT

This valve is suitable for D.C. operation only.

- (a) Series : V_f applied across the two filament sections in series, between pins 1 and 7. V_{f1} referred to pin 1.
- (b) Parallel : V_f applied across the two filament sections in parallel, between pin 5 and pins 1 and 7 connected together. V_{f1} referred to pin 5.

	Series	Parallel
V_f	2.8	1.4
I_f	0.1	0.2

For series filament operation a shunting resistor must be connected across one filament section, between pins 1 and 5 to by-pass the excess cathode current in this section. The value of the resistor should be such that the voltage across the shunted section equals that across the other section.

MOUNTING POSITION

Any

CAPACITANCES (without external shield)

C_{a-g1}	<0.34	$\mu\mu F$
C_{in}	4.8	$\mu\mu F$
C_{out}	4.2	$\mu\mu F$

OPERATING CONDITIONS

As Class "A," A.F. Amplifier

Filament arrangement	Parallel	
V_a	135	V
V_{g2}	90	V
V_{g1}	-7.5	V
$I_{s(0)}$	14.8	mA
I_s (max. sig.)	14.9	mA
$I_{g2(0)}$	2.6	mA
I_{g2} (max. sig.)	3.5	mA
g_m	1.9	mA/V
R_a	90	K Ω
R_g	8	K Ω
V_{ia} (P _k)	7.5	V
P_{out}	600	mW
D_{tot}	5	%

DL93

OUTPUT PENTODE

Output pentode with centre-tapped filament,
suitable for R.F. and A.F. applications.

OPERATING CONDITIONS

As R.F. power amplifier at 50 Mc/s. (Intermittent operation)

V_a	150	V
V_{gs}	135	V
R_{g1}	0.2	MΩ
I_a	18.3	mA
I_{gs}	6.5	mA
I_{g1}	0.13	mA
P_{out} (approx.)	1.2	W

LIMITING VALUES

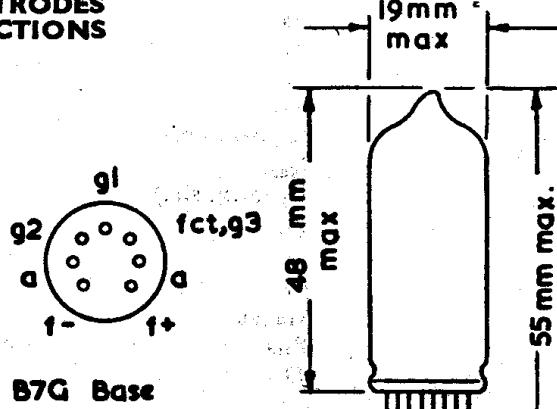
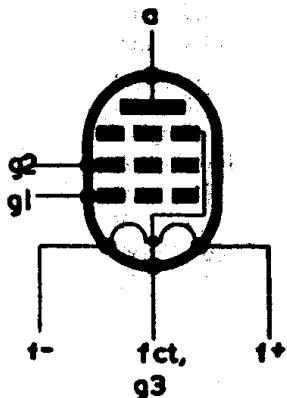
(a) A.F. power amplifier

V_a max.	150	V
V_{gs} max.	90	V
P_a max.	2	W
P_{gs} max.	0.4	W
$I_{k(0)}$ max.	18	mA

(b) R.F. power amplifier (intermittent operation)

V_a max.	150	V
V_{gs} max.	135	V
V_{g1} max.	-30	V
P_a max.	2	W
P_{gs} max.	0.9	W
P_{g1} max.	3	W
I_a max.	20	mA
I_{g1} max.	0.25	mA
I_k max.	25	mA

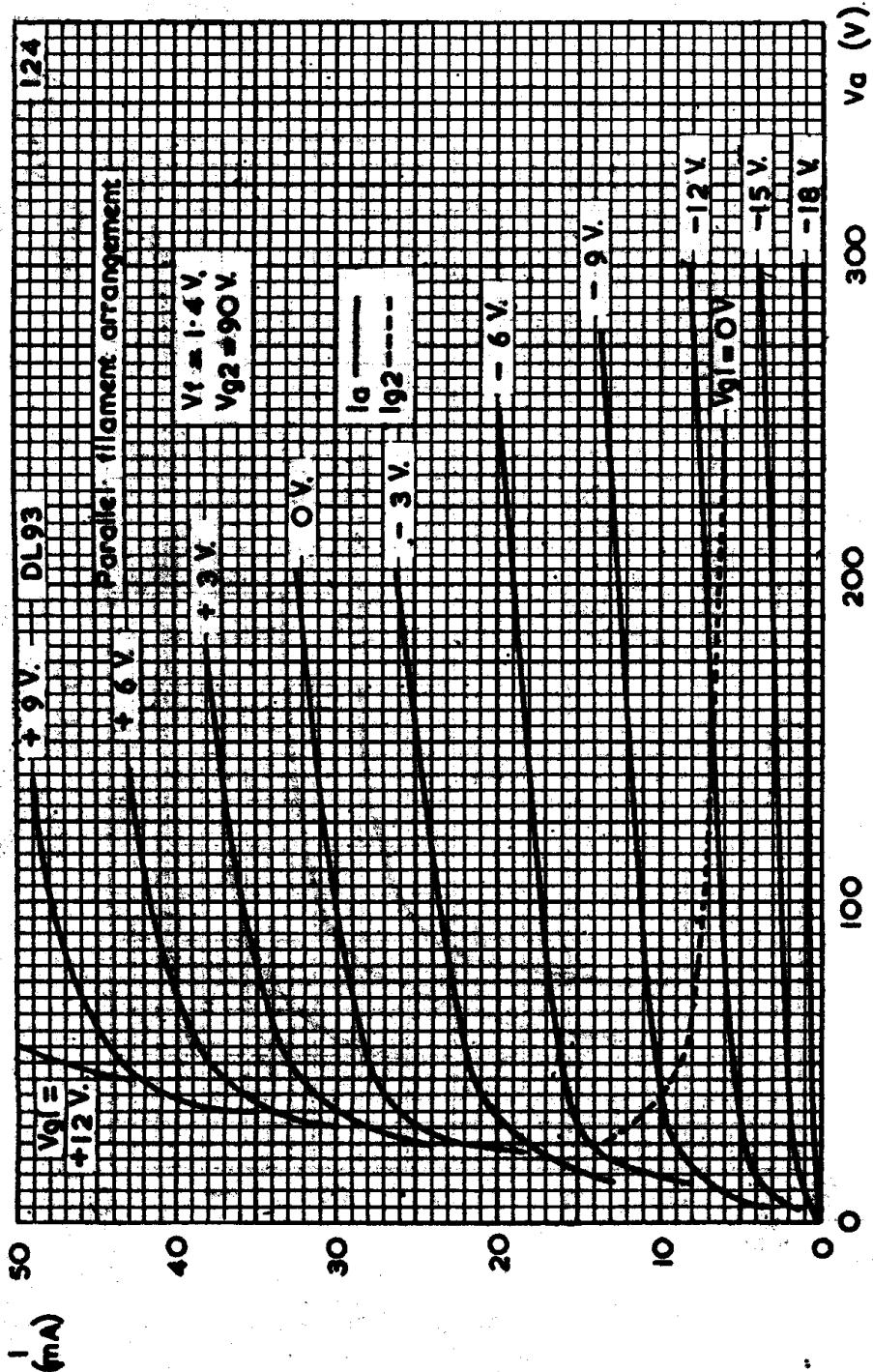
ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



OUTPUT PENTODE

Output pentode with centre-tapped filament,
suitable for R.F. and A.F. applications.

DL93



DL93

OUTPUT PENTODE

Output pentode with centre-tapped filament,
suitable for R.F. and A.F. applications.

