

# MINIATURE OUTPUT PENTODE

# DL92

Output pentode with centre-tapped filament  
for use in miniature battery-operated equipment.

## FILAMENT

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

Filament arrangement:

- (a) Series:  $V_f$  applied across the two filament sections in series, between pins 1 and 7.  $V_{g1}$  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.  $V_{g1}$  referred to pin 5.

	<u>Series</u>	<u>Parallel</u>	
$V_f$	2.8	1.4	V
$I_f$	0.05	0.1	A

## OPERATING CONDITIONS AS CLASS "A" AMPLIFIER

Filament Arrangement:	<u>Series</u>		<u>Parallel</u>		
$V_a$	67.5	90	67.5	90	V
$V_{g2}$	67.5	67.5	67.5	67.5	V
$V_{g1}$	-7	-7	-7	-7	V
$I_{a0}$	6.0	6.1	7.2	7.4	mA
$I_{g20}$	1.2	1.1	1.5	1.4	mA
$g_m$	1.4	1.43	1.55	1.58	mA/V
$r_a$	0.1	0.1	0.1	0.1	M.ohm
$R_a$	5,000	8,000	5,000	8,000	ohms
$V_{in}$ rms	5	5	5	5	V
$W_{out}$	160	235	180	270	mW
$D_{tot}$	12	13	10	12	%

## LIMITING VALUES

Filament Arrangement:	<u>Series</u>	<u>Parallel</u>	
$V_a$ max.	90	90	V
$V_{g2}$ max.	67.5	67.5	V
$I_k$ max. signal	5.5*	11.0	mA
$I_{k0}$ max.	4.5*	9.0	mA

\* For each 1.4 V. section.

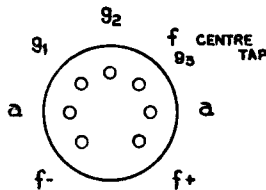
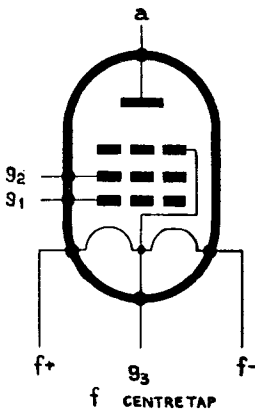


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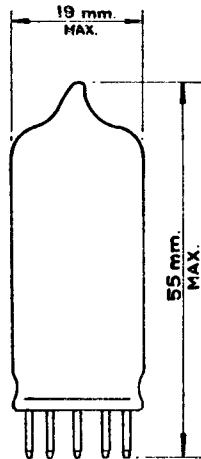
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ARRANGEMENT OF ELECTRODES  
AND BASE CONNECTIONS



B7G BASE

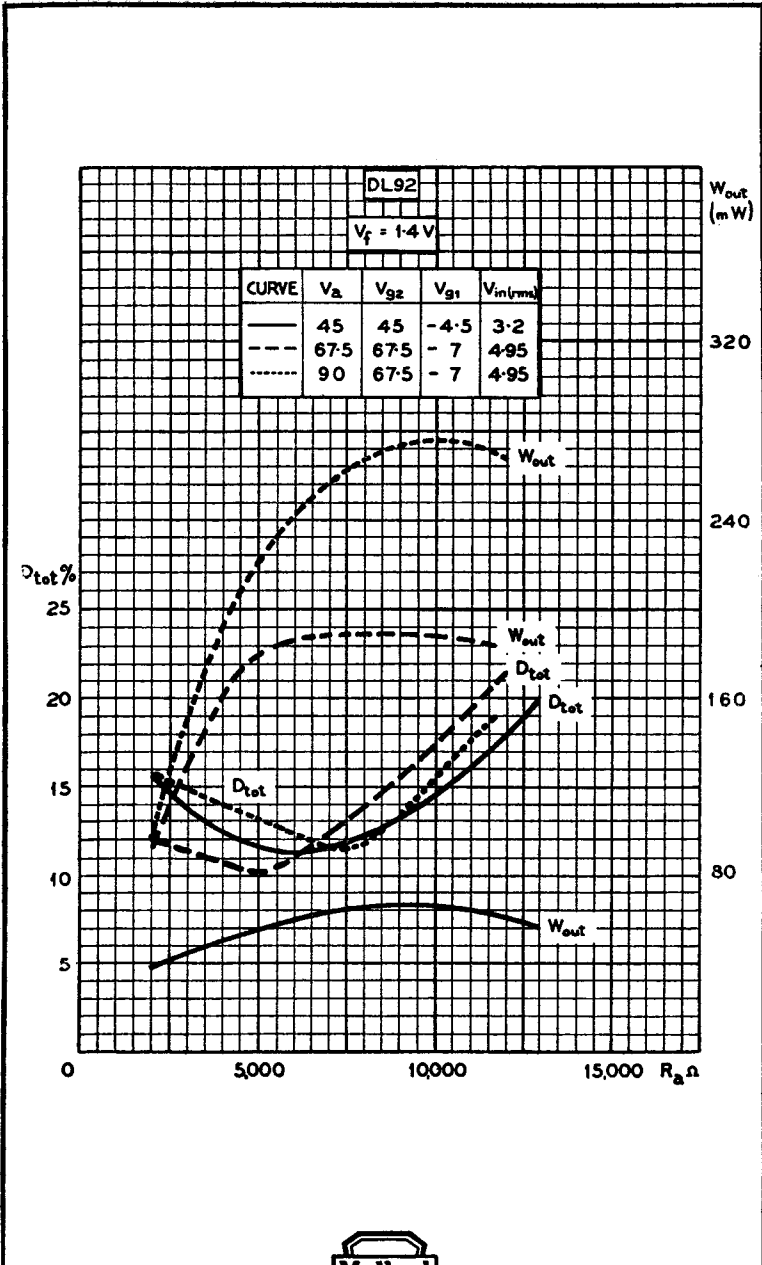
DIMENSIONS



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