

# OUTPUT PENTODE

# DL33

Output pentode with centre-tapped filament  
for use in 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 2 and 7.  $V_{g1}$  referred to pin 7.
- (b) Parallel:  $V_f$  applied across the two filament sections in parallel, between pin 8 and pins 2 and 7 connected together.  $V_{g1}$  referred to pin 8.

	Series	Parallel	
$V_f$	2.8	1.4	V
$I_f$	0.05	0.1	A

## TYPICAL OPERATING CONDITIONS AS CLASS "A" AMPLIFIER

Filament Arr.:	Series			Parallel		
$V_a$	90	110	85	90	110	V
$V_{g2}$	90	110	85	90	110	V
$V_{g1}$	-4.5	-6.6	-5.0	-4.5	-6.6	V
$V_{in}$ rms	3.2	3.6	3.5	3.2	3.8	V
$I_a$	8.0	8.5	7.0	9.5	10	mA
$I_{g2}$	1.0	1.1	0.8	1.3	1.4	mA
$g_m$	2.0	2.0	1.95	2.2	2.2	mA/V
$r_a$	80,000	110,000	70,000	90,000	100,000	ohms
$R_a$	8,000	8,000	9,000	8,000	8,000	ohms
$W_{out}$	230	330	250	270	400	mW
$D_{tot}$	8.5	8.5	5.5	6.0	6.0	%

## LIMITING VALUES

Filament Arrangement:	Series	Parallel	
$V_a$ max.	110	110	V
$V_{g2}$ max.	110	110	V
$I_{ko}$ max.	6*	12	mA
$R_{g1}$ max.	1.0	1.0	M.ohm

\* For each 1.4 V. Section.

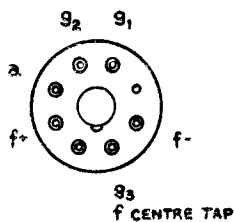
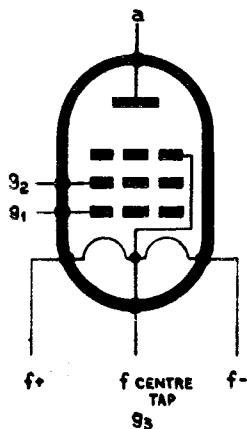


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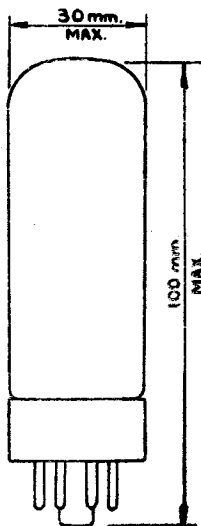
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ARRANGEMENT OF ELECTRODES  
AND BASE CONNECTIONS



OCTAL BASE

DIMENSIONS



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