

# SUBMINIATURE OUTPUT PENTODE

# DL620

Subminiature output pentode suitable for battery operation with an h.t. supply of 90V.

## FILAMENT

Suitable for d.c. operation only.

$V_f$	1.25	V
$I_f$	50	mA

## MOUNTING POSITION

Any

**Note**—Direct soldered connections to the leads of this valve must be at least 5mm from the seal and any bending of the valve leads must be at least 1.5mm from the seal.

## CAPACITANCES (measured without external shield)

$C_{a-g1}$	<0.2	pF
$C_{in}$	2.8	pF
$C_{out}$	3.5	pF

## CHARACTERISTICS

$V_a$	67.5	V
$V_{g2}$	67.5	V
$I_a$	3.1	mA
$I_{gg}$	950	$\mu A$
$V_{g1}$	-6.5	V
$g_m$	650	$\mu A/V$
$r_a$	110	$k\Omega$
$\mu_{g1-g2}$	5.0	

## OPERATING CONDITIONS AS SINGLE VALVE CLASS 'A' AMPLIFIER

$V_a$	45	67.5	90	V
$V_{g2}$	45	67.5	67.5	V
$I_{a(0)}$	1.8	3.25	3.25	mA
$I_{g2(0)}$	0.6	1.0	0.9	mA
$I_{g2}$ (max. sig.)	1.1	1.75	1.5	mA
$V_{g1}$	-3.8	-6.2	-6.7	V
$V_{in(r.m.s.)}$	3.4	5.0	4.8	V
$R_a$	20	15	25	$k\Omega$
$P_{out}$	30	85	110	mW
$D_{tot}$	10	10	10	%

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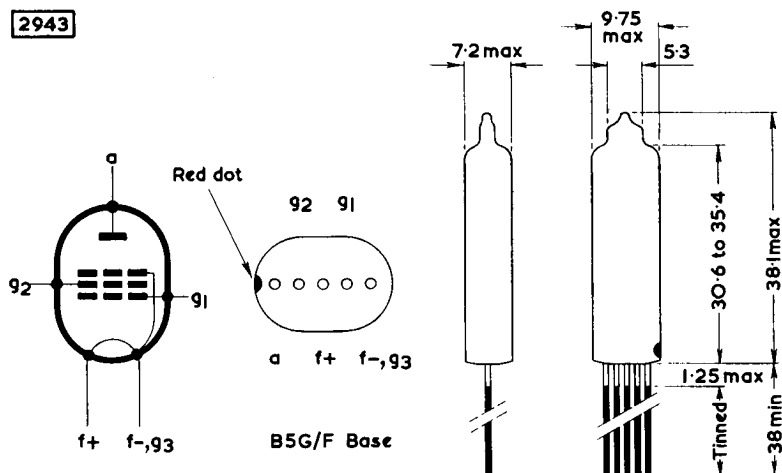
### OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL CLASS 'AB'

$V_{a-e}$	67.5	V
$V_{g2-e}$	67.5	V
$I_{a(0)}$	3.3	mA
$I_a$ (max. sig.)	3.6	mA
$I_{g2(0)}$	1.0	mA
$I_{g2}$ (max. sig.)	2.25	mA
$R_k$	1.8	k $\Omega$
$R_{a-a}$	30	k $\Omega$
$V_{In(g1-g1)r.m.s.}$	16	V
$P_{out}$	100	mW
$D_{tot}$	3.0	%

### LIMITING VALUES

$V_a$ max.	90	V
$V_{g2}$ max.	90	V
$I_k$ max.	5.0	mA

2943



All dimensions in mm