

# Mullard

## OUTPUT PENTODE

# EL22

### HEATER

$V_h$	6.3	V
$I_h$	0.7	A

### CAPACITANCE

$C_{a-g}$	< 1.0	$\mu\text{F}$
-----------	-------	---------------

### TYPICAL OPERATING CONDITIONS AS SINGLE CLASS "A" AMPLIFIER

$V_a$	250	V
$V_{g2}$	250	V
$V_{g1}$	-7	V
$I_a(o)$	44	mA
$I_{g2(o)}$	5.2	mA
$R_k$	140	ohms
$S_m$	9.5	mA/V
$V_{g1-g2}$	18	
$R_a$	5,750	ohms
$V_{in\text{rms}}$ ( $W_{out}=50\text{ mW}$ )	0.35	V
$V_{in\text{rms}}$	4.7	V
$D_{tot}$	10	%
$W_{out}$	5.2	W
$V_{in}$ (start of $I_{g1}$ )	4.9	V
$D_{tot}$ (start of $I_{g1}$ )	10.8	%
$W_{out}$ (start of $I_{g1}$ )	5.4	W

### TYPICAL OPERATING CONDITIONS AS PUSH-PULL CLASS "A" AMPLIFIER

$V_a$	300	V
$V_{g2}$	300	V
$R_k$	140	ohms
$R_{a-a}$	8,000	ohms
$I_a(o)$	2x35	mA
$I_a$ (max. signal)	2x43	mA
$I_{g2(o)}$	2x4.2	mA
$I_{g2}$ (max. signal)	2x7.8	mA
$V_{in\text{rms}}$ ( $W_{out}=50\text{ mW}$ )	0.66	V(g-g)
$V_{in\text{rms}}$ (start of $I_{g1}$ )	18.4	V(g-g)
$D_{tot}$ (start of $I_{g1}$ )	5.0	%
$W_{out}$ (start of $I_{g1}$ )	15.4	W

# EL22

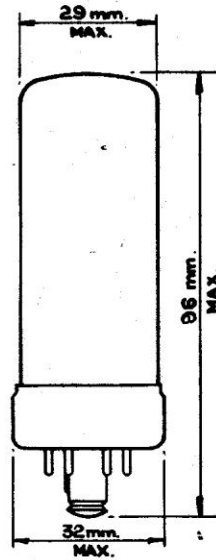
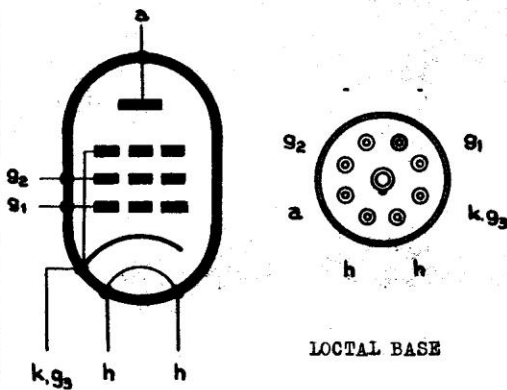
## Mullard OUTPUT PENTODE

### LIMITING VALUES

$V_{a(b)}$ max.	550	V
$V_a$ max.	300	V
$w_a$ max.	11	W
$V_{g2(b)}$ max.	550	V
$V_{g2}$ max.	300	V
$w_{g2}$ max.	1.7	W
$I_k$ max.	60	mA
$V_{h-k}$ max.	50	V
$R_{g1}$ max.	1.0	M.ohm
$R_{h-k}$ max.	5,000	ohms
$V_{g1}$ max. ( $I_{g1} = +0.3\mu A$ )	-1.3	V

### DIMENSIONS

### ARRANGEMENT OF ELECTRODES AND BASE CONNECTIONS



ISSUE 1

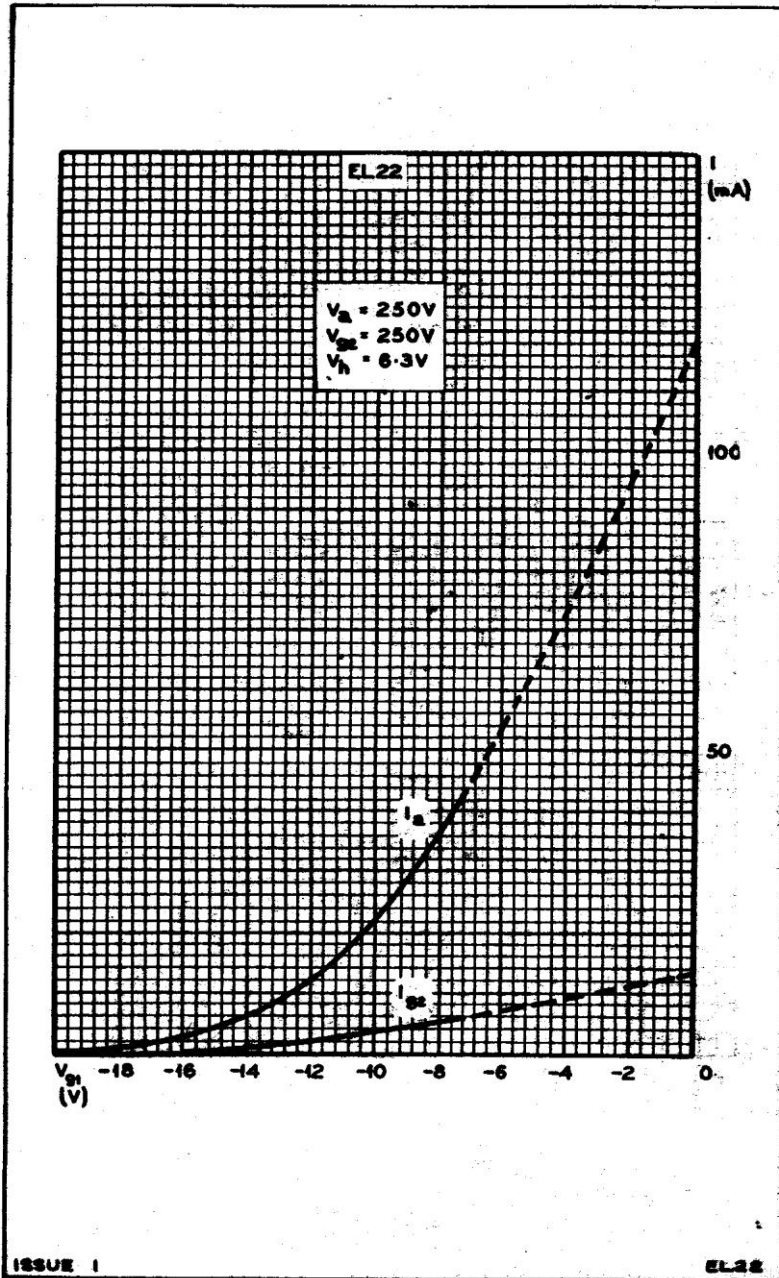
EL 22

1546/2

# Mullard

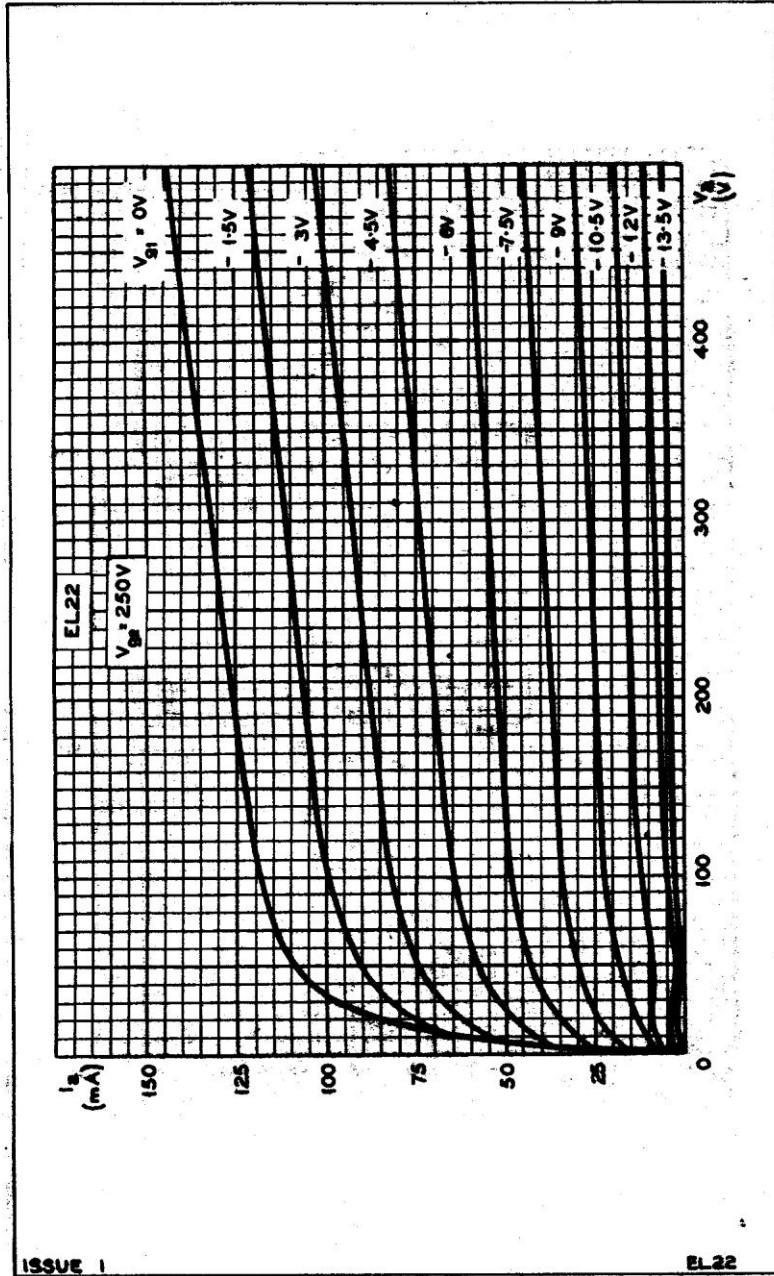
## OUTPUT PENTODE

# EL22



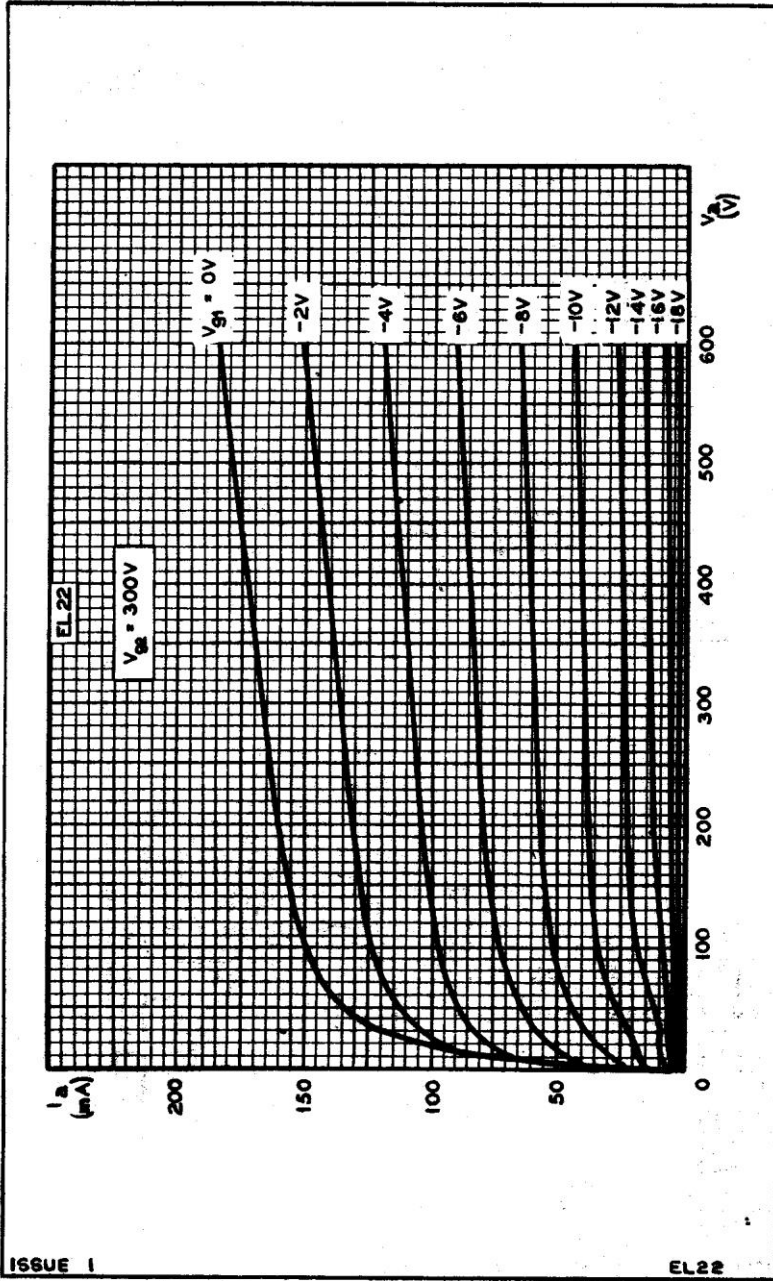
# EL22

## Mullard OUTPUT PENTODE



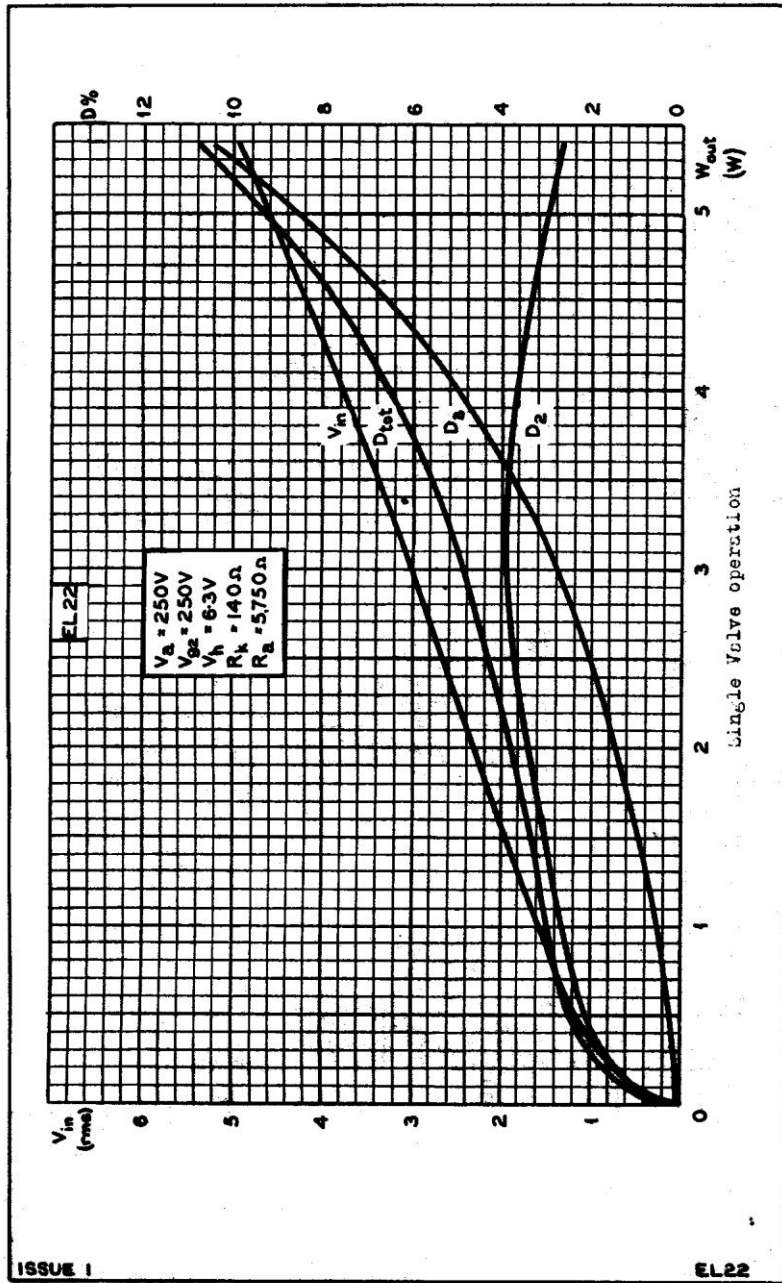
# Mullard OUTPUT PENTODE

# EL22



# EL22

## Mullard OUTPUT PENTODE



# Mullard OUTPUT PENTODE

# EL22

