

# OUTPUT PENTODE

# EL81

Output pentode suitable for use in the line time base of television receivers or as a series regulator valve in stabilised power supply units.

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## HEATER

$V_h$	6.3	V
$I_h$	1.05	A

## CAPACITANCES (measured without external shield)

### Pentode connected

$C_{in}$	14.7	pF
$C_{out}$	6.0	pF
$C_{a-g1}$	<0.8	pF
$C_{a-k}$	<0.1	pF
$C_{g1-h}$	<0.2	pF

### Triode connected

$C_{in}$	8.7	pF
$C_{out}$	11.4	pF
$C_{a-g1}$	6.6	pF

## CHARACTERISTICS

### Pentode connected

$V_a$	250	V
$V_{g3}$	0	V
$V_{g2}$	250	V
$V_{g1}$	-38.5	V
$I_a$	32	mA
$I_{g2}$	2.4	mA
$g_m$	4.6	mA/V
$r_a$	15	k $\Omega$
$\mu_{g1-g2}$	5.1	

### Triode connected ( $g_2$ connected to a, $g_3$ connected to k)

$V_a$	250	V
$V_{g1}$	-38	V
$I_a$	40	mA
$g_m$	5.5	mA/V
$r_a$	1.0	k $\Omega$
$\mu$	5.5	

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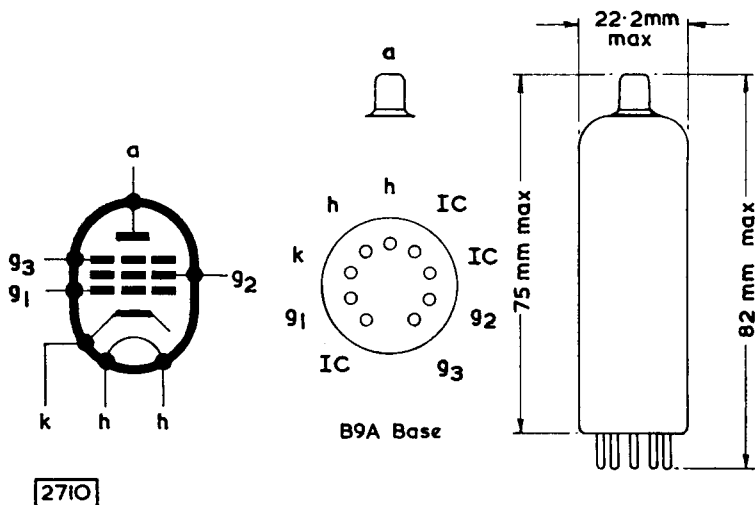
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### LIMITING VALUES

$V_{a(b)}$ max.	550	V
$V_a$ max.	300	V
* $V_{a(pk)}$ max.	7.0	kV
$p_a$ max.	8.0	W
$V_{g2(b)}$ max.	550	V
$V_{g2}$ max.	300	V
$p_{g2}$ max.	4.5	W
$p_{a+g2}$ max.	10	W
$I_k$ max.	180	mA
$V_{g1}$ max. ( $I_{g1} = +0.3\mu A$ )	-1.3	V
$R_{g1-k}$ max.	500	k $\Omega$
$V_{h-k}$ max.	100	V
$R_{h-k}$ max.	20	k $\Omega$
$T_{bulb}$ max.	185	$^{\circ}C$

\*Max. pulse duration 18% of one cycle, with a maximum of 18 $\mu s$



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