

# OUTPUT PENTODE

# EL42

Output pentode capable of 6 watts dissipation at the anode. Its small consumption heater and compact dimensions render it particularly suitable for use in car radio receivers.

## HEATER

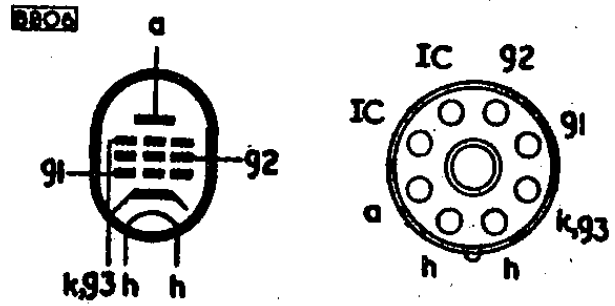
$V_h$	6.3	V
$I_h$	200	mA

## LIMITING VALUES

$V_a$ max.	300	V
$p_a$ max.	6.0	W
$V_{g2}$ max.	300	V
$P_{g2}$ max. (zero sig.)	1.0	W
$P_{g2}$ max. (max. sig.)	2.0	W
$I_k$ max.	35	mA
$V_{h-k}$ max.	50	V

## CHARACTERISTICS

$V_a$	200	225	V
$V_{g2}$	200	225	V
$V_{g1}$	9.4	10.8	V
$I_a$	22.5	26	mA
$I_{g2}$	3.5	4.1	mA
$g_m$	3.2	3.2	mA/V
$r_a$	90	90	k $\Omega$
$\mu_{g1-g2}$	11	11	



B8A

Pin 4—No Connection

## DIMENSIONS

Max. Overall Length	60	mm
Max. Seated Height	53	mm
Max. Diameter	22	mm

## OPERATING CONDITIONS

(As single valve class "A" amplifier)

$V_a$	200	225	V
$V_{g2}$	200	225	V
$R_k$	360	360	$\Omega$
$I_a$	22.5	26	mA
$I_{g2}$	3.5	4.1	mA
$R_a$	9.0	9.0	k $\Omega$
$V_{in(r.m.s.)}$	6.4	7.2	V
$P_{out}$	1.9	2.5	W
$D_{tot}$	10	10	%

## OPERATING CONDITIONS FOR TWO VALVES IN PUSH-PULL

	Class "AB" (Self Bias)		Class "B" (Fixed Bias)		
$V_a$	200	250	200	250	V
$V_{g2}$	200	250	250	250	V
$V_{g1}$	—	—	-17	-22.5	V
$R_k$	310	310	—	—	$\Omega$
$I_{a(0)}$	$2 \times 16$	$2 \times 20$	$2 \times 5.0$	$2 \times 5.0$	mA
$I_a$ (max. sig.)	$2 \times 17$	$2 \times 21.5$	$2 \times 16$	$2 \times 20$	mA
$I_{g2(0)}$	$2 \times 2.6$	$2 \times 3.2$	$2 \times 0.8$	$2 \times 0.8$	mA
$I_{g2}$ (max. sig.)	$2 \times 5.6$	$2 \times 6.7$	$2 \times 4.6$	$2 \times 6.5$	mA
$R_{a-a}$	15	15	16	16	k $\Omega$
$V_{in(g1-g1)r.m.s.}$	19.2	25	24	32	V
$P_{out}$	4.1	7.0	4.0	6.5	W
$D_{tot}$	5.5	5.5	3.5	5.0	%

REPLACEMENT FOR: N151—Direct.