

OUTPUT PENTODE (OBSOLETE)

EL35

HEATER

V_h	6.3	V
I_h	1.35	A

DIMENSIONS

Max. Overall Length	125	mm
Max. Diameter	47	mm

LIMITING VALUES

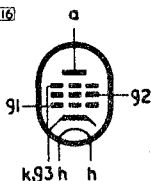
V_a max.	375	V
p_a max.	18	W
V_{g2} max.	250	V
p_{g2} max.	3.5	W
I_k max.	90	mA
V_{h-k} max.	50	V

CHARACTERISTICS

V_a	250	V
V_{g2}	250	V
V_{g1}	-15.5	V
I_a	72	mA
I_{g2}	8.0	mA
g_m	5.0	mA/V
r_a	15.5	k Ω
μ_{g1-g2}	8.0	

OPERATING CONDITIONS (As single valve class "A" amplifier)

V_a	250	V
V_{g2}	250	V
R_k	180	Ω
I_a	72	mA
I_{g2}	8.0	mA
R_a	2.5	k Ω
P_{out}	6.0	W
$V_{in(r.m.s.)}$	13	V
D_{tot}	10	%



Octal

OPERATING CONDITIONS

Two Valves in Class "AB" Push-pull (Self Bias)

V_a	270	360	V
V_{g2}	270	270	V
* R_k	135	250	Ω
$I_{g2(0)}$	2 × 8	2 × 4.25	mA
I_{g2} (max. sig.)	2 × 12.5	2 × 8.75	mA
$I_{g2(0)}$	16	8.5	mA
I_{g2} (max. sig.)	25	17.5	mA
R_{a-a}	5.0	7.0	k Ω
P_{out}	17	21	W
$V_{in(g1-g1)r.m.s.}$	31	46	V
D_{tot}	6.0	<3.0	%

*Common cathode bias resistor.

Two Valves in Class "AB" Push-pull (Fixed Bias)

V_a	360	V
V_{g2}	270	V
V_{g1}	-26	V
$I_{a(0)}$	2 × 44	mA
I_a (max. sig.)	2 × 70	mA
$I_{g2(0)}$	2 × 4.25	mA
I_{g2} (max. sig.)	2 × 9.75	mA
R_{a-a}	6.25	k Ω
P_{out}	26	W
$V_{in(g1-g1)r.m.s.}$	36	V
D_{tot}	<3.0	%

REPLACED BY: EL37—No alteration necessary in single valve output stages, but may be necessary in push-pull stages.

