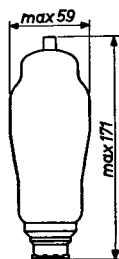
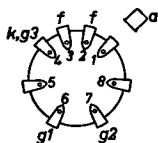
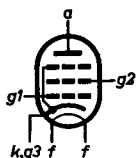


OUTPUT PENTODE
PENTHODE DE SORTIE
ENDPENTODE*

Heating: indirect by A.C. or D.C.;
parallel supply
Chauffage: indirect par C.A. ou C.C.; $V_f = 6,3$ V
alimentation en parallèle $I_f = 1,9$ A
Heizung: indirekt durch Wechsel- oder
Gleichstrom; Parallelspeisung

Dimensions in mm
Dimensions en mm
Abmessungen in mm



Base, culot, Sockel: P

Capacitances
Capacités
Kapazitäten

$C_{ag1} < 1,5$ pF

Typical characteristics
Caractéristiques types
Kenndaten

V_a	=	500	750	V
V_{g2}	=	500	750	V
V_{g1}	=	-20	-37,5	V
I_a	=	87	60	mA
I_{g2}	=	13	10	mA
S	=	11	8	mA/V
μ_{g2g1}	=	16,5	16,5	-
R_1	=	33	50	k Ω

Operating characteristics
 Caractéristiques d'utilisation
 Betriebsdaten

	class B classe B Klasse B		class AB classe AB Klasse AB		
V_a	=	750	500		V
V_{g2}	=	750	500		V
V_{g1}	=	-40	-		V
R_k	=	-	100		Ω
R_{aa}	=	6	4,8		k Ω
R_{g2}	=	1)	-		-
V_i	=	0	28,5	0	19 V _{eff.}
I_a	=	2x40	2x145	2x87	2x110 mA
I_{g2}	=	2x7,5	2x30	2x13	2x23 mA
W_o	=	0	140	0	67,5 W
d_{tot}	=	-	5	-	5 %

Limiting values
 Caractéristiques limites
 Grenzdaten

V_{ao}	= max.	1500 V
V_a	= max.	750 V
W_a	= max.	45 W
V_{g2o}	= max.	1500 V
V_{g2}	= max.	750 V
$W_{g2} (V_i = 0)$	= max.	7 W
$W_{g2} (W_o = \text{max.})$	= max.	25 W
I_k	= max.	200 mA
$V_{g1} (I_{g1} = +0,3 \mu\text{A})$	= max.	-1,3 V
$R_{g1} (A, B)$	= max.	0,35 M Ω
$R_{g1} (AB)$	= max.	0,7 M Ω
V_{fk}	= max.	50 V
R_{fk}	= max.	20 k Ω

1) Incandescent lamp of 550 V/68 W
 Lampe à incandescence de 550 V/68 W
 Glühlampe von 550 V/68 W

PHILIPS



*Electronic
Tube*

HANDBOOK

page	EL51 sheet	date
1	1	1953.04.04
2	2	1953.04.04
3	FP	1999.07.04