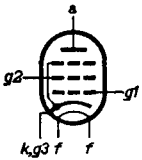
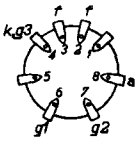
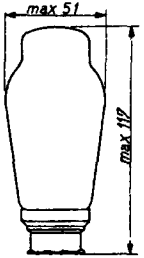
OUTPUT PENTODE for use in class AB
PENTHODE DE SORTIE pour utilisation en classe AB
ENDPENTHODE zur Verwendung in Klasse AB

Heating : indirect by A.C. or D.C.; parallel supply
Chauffage : indirect par C.A. ou C.C.; alimentation en parallèle Vf= 4 V If= 2 A
Heizung : indirekt durch Wechsel- oder Gleichstrom; Parallelspeisung







Capacities
Capacités
Kapazitäten

Cag1 = 1 pF

Operating conditions class AB
Caractéristiques d'utilisation classe AB
Betriebsdaten Klasse AB

Va	=	375		V
Vg2	=	275		V
Rk	=	165		Ω
Raa'	=	6,5		kΩ
Vi	=	0	16	V_{eff}
Ia	=	2x48	2x62	mA
Ig2	=	2x5	2x9	mA
Wo	=	0	28,5	W
d	=	-	2,3	%

PHILIPS

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4689

OUTPUT PENTODE
PENTHODE DE SORTIE
ENDPENTODE

Heating : indirect by A.C. or D.C. parallel supply
Chauffage: indirect par C.A. ou C.C. alimentation- parallèle
Heizung : indirekt durch Wechsel- oder Gleichstrom Parallelspeisung

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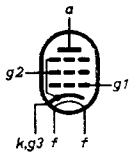
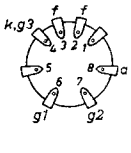
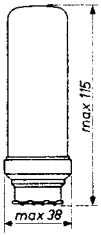
V_f = 4 V	V_f = 6,3 V
I_f = 2 A	I_f = 1,35 A

Dimensions in mm
Dimensions en mm
Abmessungen in mm







Base, culot, Sockel: P

Capacitances
Capacités
Kapazitäten

4688	**4689**
C_{ag1} = 1 pF	C_{ag1} < 0,8 pF

Operating characteristics class AB
Caractéristiques d'utilisation classe AB
Betriebsdaten Klasse AB

V_a	=	375		V
V_{g2}	=	275		V
R_k	=	165		Ω
$R_{aa\sim}$	=	6,5		kΩ
V_i	=	0	16	Veff
I_a	=	2x48	2x62	mA
I_{g2}	=	2x5	2x9	mA
W_o	=	0	28,5	W
dtot	=	-	2,3	%

"Miniwatt"

Limiting values
Caractéristiques limites
Grenzdaten

Va_o	=	max.	600	V
Va	=	max.	375	V
Wa	=	max.	18	W
$Vg2_o$	=	max.	600	V
Vg2	=	max.	275	V
Wg2 (Vi = 0)	=	max.	2	W
Wg2 (Wo = max.)	=	max.	3,5	W
Ik	=	max.	90	mA
Vg1 (Ig1=+0,3µA)	=	max.	-1,3	V
Rg1	=	max.	0,7	MΩ
Vfk	=	max.	50	V
Rfk	=	max.	5	kΩ

Limiting values
Caractéristiques limites
Grenzdaten

V_{a_o}	=	max.	600	V
V_a	=	max.	375	V
W_a	=	max.	18	W
V_{g2_o}	=	max.	600	V
V_{g2}	=	max.	275	V
$W_{g2}(V_i = 0)$	=	max.	2	W
$W_{g2}(W_o = \text{max.})$	=	max.	3,5	W
I_k	=	max.	90	mA
$V_{g1}(I_{g1} = +0,3\mu A)$	=	max.	-1,3	V
R_{g1}	=	max.	0,7	MΩ
V_{kf}	=	max.	50	V
R_{kf}	=	max.	5	kΩ

PHILIPS

Electronic Tube HANDBOOK

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page	sheet	date
1	1	1948.08.25
2	1	1953.12.12
3	2	1948.08.25
4	2	1953.12.12
5	FP	1999.06.07