



ELECTRONIC TUBE REFERENCE

TA105000K

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled directly heated power triode for high-power telegraph and telephone transmitters. Approximately 5 kW plate dissipation and multi-kilovolt operation provide substantial continuous RF and modulator power.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	21.5 V / 26 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE DISSIPATION	5000 W
Water-cooled transmitting triode	

Directly heated water-cooled transmitting triode for high-power telegraphy and telephony transmitters. The datasheet gives high-voltage RF operating data, anode dissipation, amplification factor, and cooling information.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1999 PHILIPS E-Z

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tens. anodique 5000 6000 8000 10000	12000 v	—
TENSION ANODIQUE	12000 V	—
o 045	18 kW	Modulator
TENSION ANODIQUE	10000 V	—
100% [1]	40 A	—
100% [2]	12 kW	—
100% [3]	480 kW	—
80% [1]	45 A	—
80% [2]	15 kW	—
80% [3]	486 kW	—
60% [1]	55 A	—
60% [2]	20 kW	—
60% [3]	512 kW	—
a} 4 PHILIPS / Courant de chauffage Iy	26 A	—
Tension anodique V. = 4000—	12000 V	—
V / Dissipation anodique admissible. W,	5 kW	—
Dissipation anodique d'essai Wau	75 kW	—
Inclinaison pour ¥V,	10000 V	—
N A/ é' I, [1]	5 A	—
N A/ é' I, [2]	4 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
l S/ Inclinaison maximum S	5.5 mA	—
i i [1]	10000 V	—
i i [2]	500 mA	—
spannung von	12000 V	Telephony
bis zu 60 m herab [1]	10000 V	Telegraphy
bis zu 60 m herab [2]	12000 V	Telegraphy
lenlangen bis zu 15 m herab [1]	8000 V	Telegraphy
lenlangen bis zu 15 m herab [2]	10000 V	Telegraphy
lenlangen bis zu 15 m herab [3]	16.85 kW	Telegraphy
tragen. In Telephoniesendern beträgt H.F.-Klasse B (Tele [1]	12000 V	Telephony
tragen. In Telephoniesendern beträgt H.F.-Klasse B (Tele [2]	2 kW	Telephony
phonie) [1]	10000 V	Telephony
phonie) [2]	1.6 kW	Telephony
bei Wellenlangen bis zu 60 m herab	8000 V	Telephony
m herab	6500 V	Telephony
i 3000 IB{L ol A 3 Heizspannung o Vr	215 V	—
f : Heizstrom Iy = ca	20 A	—
Sättigungsstrom I = ca	3 A	—
l Anodenspannung V, = max	12000 V	—
l / / s : Héchstzulässiger Anodenverlust . . . W, = max	5 kW	—
Gepriifter Anodenverlust Wa	7.5 kW	—
Ay my 3 Steilheit bei Vg [1]	12000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ay my 3 Steilheit bei Vg [2]	500 mA	—
Ay my 3 Steilheit bei Vg [3]	4 mA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
y} iRy / pAR ' j\ Anoden/Kathodenkapazitit Cgp == ca	1.6 pF	—
ARy / / / W ' Gitter/Kathodenkapazitit G = ca	14 pF	—
i ' / S Anoden/Gitterkapazitat Cqg == ca	31 pF	—

TUBE TINKER

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